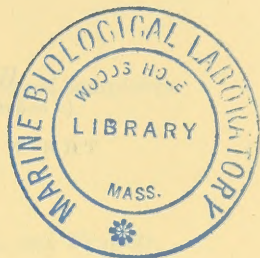


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CURRENT BIBLIOGRAPHY FOR AQUATIC SCIENCES AND FISHERIES

VOLUME 6

1963



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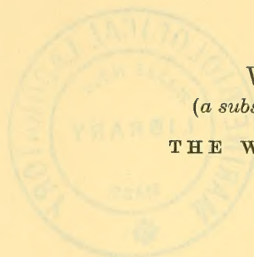
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CURRENT BIBLIOGRAPHY FOR AQUATIC SCIENCES AND FISHERIES

VOLUME 6—EXPLANATION OF COVERAGE AND ARRANGEMENT

9. ERRATA AND ADDENDA to " EXPLANATION OF COVERAGE AND ARRANGEMENT " (contd.)

1. SCOPE AND COVERAGE OF BIBLIOGRAPHY

List of periodicals the contents of which are entered completely

Insert, in alphabetic order, the following:

Indian Fisheries Bulletin

3. REFERENCES

Names and Abbreviations of Organizations and Projects

Insert, in alphabetic order, the following:

ACMR (FAO)	..	Advisory Committee on Marine Resources Research
AZCHERNIRO	..	Азово-Черноморский Научно-исследовательский Институт Морского Рыбного Хозяйства и Океанографии—АЗЧЕРНИРО (Azov-Black Sea Scientific Research Institute of Sea Fisheries and Oceanography)
CARPAS	..	Comision Asesora Regional de Pesca para el Atlantico Sud-occidental
CREO	..	Centre de Recherches et d'Études Océanographiques (France)
GBRS	..	Groupe Belge de Recherche Sous-Marine
NFI	..	National Fisheries Institute (U.S.A.)
ORITU	..	Ocean Research Institute, University of Tokyo
RFCWA	..	Regional Fisheries Commission for Western Africa Commission Régionale des Pêches pour l'Afrique de l'Ouest
RRIWB	..	River Research Institute, West Bengal (India)

Insert under IPFC the following Spanish name to follow the French name:

Consejo del Indo-Pacífico para Pesquerías

4. ANNOTATIONS AND TREATMENT OF SPECIAL CASES

4.1 *Treatment of publications not seen by compilers*

Code for Abstracting Journals

Insert, in alphabetic order, the following:

Nuclear Science Abstracts NSA

7. MEETINGS: CONGRESSES, CONFERENCES, SYMPOSIA, COURSES, TRAINING CENTRES

Replace the text under Section 7 with the following updated text:

In Volumes 3 to 5 inclusive, information on meetings taking place on or after 1 January 1960 also includes dates and places and an annotation. From Volume 6 on this further information for meetings taking place on or after 1 July 1963 is given in the UNESCO-FAO newsletter—*International Marine Science*. In that periodical there is a Section entitled "Miscellaneous news items" in which, under the subject heading "Meetings, etc.", will be listed forthcoming scientific meetings, congresses, conferences and symposia including all those known to be taking place at any time within 12 months of the issue, as soon as detailed information about them is available.

Annotations of meeting documents and preprints, or of the published proceedings, if preprints or meeting documents had not already been annotated, will each cite the number of the meeting to which they relate, preceded by the symbol "Do" in the case of documents or preprints, and "Pr" in the case of the printed proceedings. Annotations of unofficial reports and commentary on meetings also cite the meeting number, after the citation symbol "No" (see section 5.5). Meeting numbers are included in the Geographic, Taxonomic, Subject and Citation Indexes. Names of sponsors are listed at the end of the Author indexes, in a special section of them.

References to meetings known to be taking place at any time within the 12 months following publication of an issue of *Current Bibliography* are entered, as soon as detailed information about them is available. When information about a particular meeting is incomplete three months or less from the date on which it is believed to be opening, reference to it is nevertheless entered in the next issue.

Training centres and courses are dealt with in the same manner as meetings but in *International Marine Science* they are listed in a Sub-section under "Training facilities".

In Volumes 3 to 5 of the *Current Bibliography*, at the end of each Meetings Section, check lists of meeting numbers were given in order of opening date on pages designated by the symbol "M". These lists were cumulative from (and including) the month of publication of each issue. Also in those volumes amended meeting references were entered under new numbers with cross references to the original entry number.

CURRENT BIBLIOGRAPHY FOR AQUATIC SCIENCES AND FISHERIES

VOLUME 6—EDITORIAL NOTE

INTERNATIONAL BIOTOXICOLOGICAL CENTER (I.B.C.)

A documentation and information Center with the above name has been established by the World Life Research Institute at 22022 Center Street, Reche Canyon, Colton, California, U.S.A. This Institute is particularly concerned with the application of phytochemistry and marine biotoxicology to increase the utilization of natural resources by production of chemicals and pharmaceutical agents of commercial value, especially in the developing countries. Its Director is Dr. Bruce W. Halstead, from whom further information can be obtained.

The objectives of the Center are set out as:

- (a) to maintain a comprehensive library on animal venoms and poisons, and poisonous and medicinal plants;
 - (b) to establish a master list of the above species of animals and plants and a file of specialists in this subject;
 - (c) to provide on a subscription basis, services for such specialists and workers in related fields in the form of bibliographies, educational aids, monographs and charts, a Bulletin of publications and research activities, as a search, literature procurement and microcard loan service;
- and (d) to serve as a documentation clearing house in connection with a proposed International Society for Biotoxicology.

It will be seen that the activities of the new Center are in their restricted subject field quite closely parallel with those of FAO Fisheries Biology Branch Research Programs Section and the Aquatic Sciences Information Retrieval Center at Rhode Island (see *Curr. Bibliogr. aquat. Sci. Fish.*) in covering lists of experts, institutions, species, publications and research activities. The three units will therefore collaborate closely, although it should be understood that the new Center has no formal connection with FAO or other U.N. Agencies.

CURRENT BIBLIOGRAPHY FOR AQUATIC SCIENCES AND FISHERIES

VOLUME 6—ERRATA

61-025er to 61-026er

<i>Author:</i>	Scotland. Ministry of Agriculture, Fisheries & Food & Scottish Home Department	<i>should read</i>
	U.K. MAFF & Scottish Home Department	
		61-025er (61-06988)
<i>Title:</i>	Canals of the heat	<i>should read</i>
	Canals of the head	
		61-026er (61-07152)

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Callame, B. (1961) M
61-06867
C.R. Acad. Sci., Paris, 252 (10) : 1492-4

Sur la diffusion comparée des chlorures et des sulfates entre les eaux interstitielles des sédiments marins et l'eau de mer qui les recouvre (On the comparative diffusion of chloride and sulfates between the interstitial waters of marine sediments and recovering layer of sea water)

Results of experiments of diffusion of chloride and sulfates between the two water masses.

Bonnenfant, J. (1961) M
61-06868
C.R. Acad. Sci., Paris, 252 (10) : 1518-20

La glande androgène de deux isopodes: *Paragnathia formica* et *Meinertia oestroides* (The androgenous glands of two isopods: *Paragnathia formica* and *Meinertia oestroides*)

Comparative study of glands of spp.

Gayral, P. (1961) M
61-06869
C.R. Acad. Sci., Paris, 252 (11) : 1642-4

Sur la reproduction de *Monostroma obscurum* (Kütz.) J. Agardh (On the reproduction of *Monostroma obscurum* (Kütz.) J. Agardh)

A note on the gametophytes on the sp. producers of gametes heterogamous and sporophytes producers of zoospores.

Martoja, M. (1961) M
61-06870
C.R. Acad. Sci., Paris, 252 (11) : 1664-6

Signification fonctionnelle de la glande digestive (hépatopancréas) de *Nassa reticulata* L. (Mollusque prosobranch) (Functional significance of the digestive gland (hepatopancreas) of *Nassa reticulata* L., mollusc prosobranchial)

Secondat, M., R. Quillier & J.-C. Capmartin (1961) F
61-06871
C.R. Acad. Sci., Paris, 252 (11) : 1667-9

Voies d'absorption de l'urée et modifications de l'urémie chez la carpe (*Cyprinus carpio* L.) (Process of absorption of urea and modification of uremia in carp, *Cyprinus carpio* L.)

Description of process.

Weinstein, F. (1961) M
61-06872
C.R. Acad. Sci., Paris, 252 (12) : 1843-4

Psammostyela delamarei n.g., n.sp., ascidie interstitielle des sables à *Amphioxus* (*Psammostyela delamarei* n.g., n.sp., interstitial ascidian in *Amphioxus* sands)

Diagnosis of genus and spp. and notes on development of latter.

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Gostan, G. (1961)

M
61-06873

C.R. Acad. Sci., Paris, 252 (12) : 1869-70

Les réserves de calcium au cours de la construction de la coquille de *Rissoa parva* (Gastéropode prosobranch) (The calcium reserves on the construction of the shell of *Rissoa parva*, gastropod prosobranch)

A note on accumulation and utilization of calcium reserves.

Rech-Frollo, M. (1961)

M
61-06874

C.R. Acad. Sci., Paris, 252 (13) : 1991-2

Les courants de turbidité et la formation du Flysch (Turbidity currents and the Flysch formation)

Interpretation of Flysch formations.

Bourdon, R. (1961)

M
61-06875

C.R. Acad. Sci., Paris, 252 (13) : 1999-200

Sur l'existence d'une phase de parasitisme interne chez l'isopode *Ancyroniscus bonnieri* Caullery et Mesnil, de la famille des Cabiropsidae) (On the existence of a phase of internal parasitism in an isopod by *Ancyroniscus bonnieri* Caullery et Mesnil of the family Cabiropsidae)

Study of the anatomy and biology of the parasite of the isopod *Dynamene bidentata*.

FAO/ETAP (1958)

F
61-06876

Rep. FAO/E.T.A.P., (777) : 21 p.

A second report to the Government of Iraq on the development of inland fisheries

Co 1954 FAO/ETAP. Based on the extension of work conducted by A. van den Eelaart, FAO/TA inland fisheries specialist. Report on FAO project carried out under UN Expanded Technical Assistance Programme. Incl. suggestions for reorganization of fisheries development, improvements to Zaafaraniyah fish farm, fish stocking program, studies with respect to wild stocks, and fisheries regulations. Makes recommendations for further action.

FAO/ETAP (1958)

M
61-06877

Rep. FAO/E.T.A.P., (907) : 48 p.

Informe al Gobierno de Chile sobre la pesca con embarcaciones menores (Report to the Government of Chile on fisheries with small vessels)

Based on the work of C. Olesen. Report on FAO project carried out under UN Expanded Technical Assistance Programme. Briefly reviews the local fisheries, describes existent and improvement in fishing methods such as long line, troll, gill nets, harpoon and various types of trawls.

Ellis, E. A. (1960)

F
61-06878

Ctry Life, Lond., 128 (3330) : 1590-1

The coypu threat in East Anglia

Notes on life history of *Myocastor coypus*. Records introduction into England and its spread. Discusses its value in keeping waterways free of aquatic vegetation and its harmful activities in causing soil erosion and destroying field crops.

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61-06879
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Schweiz. Z. Hydrol., 22 (1) : 23-39
- Die praktische Anwendung der elektrochemischen Sauerstoffbestimmung im Wasser—3. Das kombinierte Gerät zur Temperatur-, Leitfähigkeits- und Sauerstoffmessung mit dem Oxytester und mit Laborsonden. Die Weiterentwicklung der bisherigen Sauerstoffmessung zur Polarometrie mit festen Elektroden (The practical use of electrochemical oxygen determination in the water—3. The combined instrument for measuring temperature, electrical conductivity and oxygen with the oxytester and laborsonde. Further development of the oxygen measurement to polarometry with fast electrodes). En
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- D'Ancona, U.** (1960)
Schweiz. Z. Hydrol., 22 (1) : 40-4
- Une invasion d'*Argulus* dans la lagune de Venise (An invasion of *Argulus* in the lagune of Venice)
- Causes of invasion of *Argulus* and their effect on eels.
- F
61-06881
- Auerbach, M. & G. Rottengatter** (1960)
Schweiz. Z. Hydrol., 22 (1) : 45-83
- Untersuchungen über den Wasseraustausch der einzelnen Becken des Untersees (Bodensee) (Investigations on the water exchange of the separate basins of the lower lake of Lake Constance)
- F
61-06882
- Bachofen, R.** (1960)
Schweiz. Z. Hydrol., 22 (1) : 84-95
- Meth dische und experimentelle Studie über Stoffwandlungen in Seesedimenten (Methodical and experimental study on the chemical changes in lake sediments)
- Experiments on decomposition on compounds containing nitrogen and phosphorus and liberation of nitrites, nitrates and phosphates.
- F
61-06883
- Bourelly, P.** (1960)
Schweiz. Z. Hydrol., 22 (1) : 96-102
- Une excursion algologique dans la forêt de Fontainebleau (Algological excursion in the forest of Fontainebleau)
- F
61-06884
- Chodat, F. & J. F. Schopfer** (1960)
Schweiz. Z. Hydrol., 22 (1) : 103-10
- Effets de synergie des conditions simultanées de carboautotrophie et de carbohétérotrophie observées dans la croissance de quelques algues (Synergic effects of the simultaneous conditions of carbon autotrophy and carbon heterotrophy observed in the growth of some algae)

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- Frey-Wyssling, A. & K. Mühlethaler** (1960)
Schweiz. Z. Hydrol., 22 (1) : 122-30
 Über den Feinbau der *Euglena*-Zelle (On the microstructure of *Euglena*-cells)
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- Geitler, L.** (1960)
Schweiz. Z. Hydrol., 22 (1) : 131-5
 Über Flechtenalgen (On the lichen-algae)
 Discussion on the systematics of this group.
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- Höhn-Ochsner, W.** (1960)
Schweiz. Z. Hydrol., 22 (1) : 136-49
 Das Agerstenried in der Gemeinde Uster ZH—Ein Beitrag zur Kenntnis seiner gegenwärtigen Flora und Fauna (The Agerstenried in the common Uster ZH—A contribution to the knowledge of its present flora and fauna)
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- Järnefelt, H. & R. Grönblad** (1960)
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 Neuer Fund von *Cosmarium dilatatum* nova species (New finding of *Cosmarium dilatatum* nova species)
- F
61-06889
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Schweiz. Z. Hydrol., 22 (1) : 152-66
 Untersuchungen über das Sauerstoff-Produktionspotential von Flussplankton (Investigations of the oxygen production potential of river plankton)
 Influence of various environmental factors on O₂ production.
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- Mercier, P.** (1960)
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 Les trombes sur le lac Léman (The waterspouts of the Lake of Geneva)
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- Messikommer, E.** (1960)
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 Algenflora der Gewässer des St.-Gotthard-Gebietes (Algal flora of the waters of the St.-Gotthard area)
- F
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Schweiz. Z. Hydrol., 22 (1) : 225-7
 Vegetation der alljährlich periodisch trockenliegenden Uferpartien des Sihlsees (Vegetation of the shores of the Lake Sihlsee, which are annually periodically dried out)

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Schweiz. Z. Hydrol., 22 (1) : 228-41
 Eisen-Mangan-Grundwässer (Iron-manganese ground waters)
 Description of the chemistry of ground waters, rich in Fe and Mn.
- Monod, R. (1960)** F
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 L'évolution du Léman vue par le chimiste et le bactériologiste (The evolution of the Lake of Geneva seen by the chemist and the bacteriologist)
- Dussart, B. (1960)** F
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 L'évolution du Léman vue par le biologiste et l'écologiste (The evolution of the Lake of Geneva seen by the biologist and the ecologist)
- Nipkow, F. (1960)** F
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Schweiz. Z. Hydrol., 22 (1) : 267-70
 Zellteilungen bei zwei Desmidiaceen *Micrasterias crux-melitensis* (Ehrb.) Hassalt und *Micrasterias rotata* (Grev.) Ralfs.) (Cell division of two desmids *Micrasterias crux-melitensis* (Ehrb.) Hassalt and *Micrasterias rotata* (Grev.) Ralfs.)
- Novel, E. (1960)** F
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Schweiz. Z. Hydrol., 22 (1) : 271-9
 De quelques études bactériologiques des eaux du Léman, prélevées dans le Petit-Lac durant les années 1957, 1958 et 1959 (On some bacteriological studies of water samples of the Lake of Geneva, taken in the Petit-Lac during the years 1957, 1958 and 1959)
- Ruttner, F. (1960)** F
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Schweiz. Z. Hydrol., 22 (1) : 280-91
 Über die Kohlenstoffaufnahme bei Algen aus der Rhodophyceen-Gattung *Batrachospermum* (On the carbon uptake by algae from the Rhodophyceae genera *Batrachospermum*)
- Ström, K. (1960)** F
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Schweiz. Z. Hydrol., 22 (1) : 292-4
 Pseudomoraines formed by lake ice
- Stumm, W. & G. F. Lee (1960)** F
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Schweiz. Z. Hydrol., 22 (1) : 295-319
 The chemistry of aqueous iron. De
 Discussion and theories of the iron chemistry of natural waters.

Thomas, E. A. (1960)

F

61-06901

Schweiz. Z. Hydrol., 22 (1) : 320-9

Chloridzugabe bei Plankton-Test-Loten im Baldeggersee (Addition of chlorides in the Plankton-test-tubes in the Lake Baldeggersee)

O₂ content, phosphates and other chemical constituents and phytoplankton in light and dark large test tubes with and without addition of chlorides exposed in the lake.

Vivier, P. (1960)

F

61-06902

Schweiz. Z. Hydrol., 22 (1) : 350-64

Température et oxygène dissous en profondeur dans les lacs de barrage artificiels français (Temperature and oxygen dispersed in depth in French artificial barrage lakes)

Zehnder, A. (1960)

F

61-06903

Schweiz. Z. Hydrol., 22 (1) : 365-79

Zur Systematik der Chroococcaceae (On the systematic of Chroococcaceae)

Baars, J. K. & I. J. Le Cosquino de Bussy (1960)

F

61-06904

Schweiz. Z. Hydrol., 22 (1) : 380-95

Infiltration von Flusswasser in Dünengebieten (Infiltration of river water into dune areas)

Bosset, E. (1960)

F

61-06905

Schweiz. Z. Hydrol., 22 (1) : 396-406

Des caractéristiques physico-chimiques des eaux souterraines de la plaine alluviale de l'Orbe (Physical-chemical characteristics of the underground waters in the alluvial plain of Orbe)

Bucksteeg, W. (1960)

F

61-06906

Schweiz. Z. Hydrol., 22 (1) : 407-19

Zur Frage des mikrobiellen Abbaues von Cyaniden in Abwässern (On the question of decomposition of cyanides in polluted waters by micro-organisms)

Cleary, E. J. (1960)

F

61-06907

Schweiz. Z. Hydrol., 22 (1) : 420-39

River-quality surveillance techniques in the Ohio Valley

Description of the system of water quality monitoring in the river with some representative results.

Fair, G. M. (1960)

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61-06908

Schweiz. Z. Hydrol., 22 (1) : 440-50

A unifying concept of water purification kinetics

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61-06909
Schweiz. Z. Hydrol., 22 (1) : 451-60
 Population piscicole d'une frayère en bordure de la Meuse belge (Fish population of a spawning ground on the border of the Belgian Meuse)
 Issued also as: *Trav. Sta. Rech. Groenendaal*, D(27). Counts, in 1959, of various cyprinids, *Esox*, *Anguilla*, *Salmo fario*, *Perca*.
- Husmann, W.** (1960) F
61-06910
Schweiz. Z. Hydrol., 22 (1) : 461-74
 Einsatz neuerer Messmethoden auf dem Gebiet der Abwasserreinigung und Gewässerkontrolle im Bereich der Emschergerossenschaft und des Lippeverbandes (The use of new measuring methods in the purification of polluted waters and water quality control in the area of the Ems and Lippe Associations)
 Description of the methods.
- Ippolito, G.** (1960) IMF
61-06911
Schweiz. Z. Hydrol., 22 (1) : 478-85
 Il problema dell'inquinamento delle acque superficiali in Italia (The problem of pollution of superficial waters in Italy). *It*
- Liebmann, H., K. Offhaus & S. Riedmüller** (1960) F
61-06912
Schweiz. Z. Hydrol., 22 (1) : 507-17
 Elektrophoretische Blutuntersuchungen bei normalen und bauchwasser-suchtkranken Karpfen (Electrophoretical blood investigations of normal carps and of those infected with dropsy)
- Pöpel, F.** (1960) F
61-06913
Schweiz. Z. Hydrol., 22 (1) : 545-62
 Ein Beitrag des Ingenieurs für die Erhaltung der Wassergüte (A contribution by the engineer to the maintenance of water quality)
 Some mathematical treatments of the purification problems in nature.
- Enright, J. T.** (1961) M
61-06914
Science, 133 (3455) : 758-60
 Pressure sensitivity of an amphipod
 Experiments with the intertidal *Synchelidium* sp. nov.
- Parker, B. C., H. C. Bold & T. R. Deason** (1961) F
61-06915
Science, 133 (3455) : 761-2
 Facultative heterotrophy in some chlorococcacean algae
 All known spp. of *Bracteacoccus*, *Spongiochloris* and *Dictyochloris*, and of *Neochloris* and *Spongiococcus* are capable of growing heterotrophically in darkness in a glucose-salts medium; in contrast, all known spp. of *Chlorococcum* are obligate photo-autotrophs.

Hancock, K. F. (1960)F
61-06916

Thesis, University of Alabama, 124 p.

Some factors affecting growth and production of motile cells in five chlorococcacean algae

DA 21 (7) : 1723-4. Studies growth and motile cell production in *Chlorococcum echinozygotum*, *C. hypnosporum*, *Bracteococcus minor*, *Neochloris terrestris* and *N. gelatinosa*.**Collette, B. B. (1960)**F
61-06917

Thesis, Cornell Univ., 380 p.

The systematics and biology of the darters of the subgenera *Hololepis* and *Villora* (Pisces, Percidae)DA 21 (7) : 2051. Clarifies the taxonomic relationships within two groups of *Etheostoma*, the subgenera *Hololepis* and *Villora*. Incl. investigations on habitat, spp. associates, habits, and predators.**Heath, G. W. (1960)**M
61-06918

Thesis, Cornell Univ., 366 p.

The anatomy and growth pattern of the claspers and siphon sacs of the spiny dogfish, *Squalus acanthias* Linnaeus, and the smooth dogfish, *Mustelus canis* Mitchell

DA 21 (7) : 2053-4. Describes the skeleton and musculature of the claspers, histological and histochemical study of the siphon sacs, brief report on the testis-epigonal organ couple, growth rates of the claspers and siphon sacs correlated with total body length and with the onset of sexual maturity. Discusses possible functions of the claspers and siphon sacs.

Hemphill, A. F. (1960)MF
61-06919

Thesis, Univ. of Alabama, 373 p.

A survey of the fishes of the lower coastal plain of Alabama

DA 21 (7) : 2054. Presents keys for the identification of the various spp., diagnostic descriptions, and notes on their distribution and habitats.

Peters, L. E. (1960)F
61-06920

Thesis, Purdue Univ., 95 p.

Studies on some digenetic trematodes of fishes with reference to the allocreadioid problem

DA 21 (7) : 2057. Studies taxonomic problem posed by families assigned to the super-family Allocreadioidea. Incl. resolution of contradictions posed by reported life histories in the genus *Allocreadium*, reconsideration of certain generic and family concepts, comparative morphology of miracidia, and embryology of excretory system, which has never been described in Lepocreadiidae and the Acanthocolpidae.

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Thesis, Univ. of N. Carolina, 71 p.
Effect of the substratum on the metamorphosis of the intertidal gastropods
Nassarius obsoletus and *Nassarius vibex*
- DA 21 (7) : 2058. Metamorphosis of *N. obsoletus* is markedly affected by presence of desirable substratum. Closely related spp., *N. vibex*, did not show a metamorphosis response to the presence of a natural substratum. Ability to delay metamorphosis and to respond to a favorable substratum greatly enhances the probability that *N. obsoletus* will terminate its pelagic life in a favorable habitat.
- M
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- Seguin, R. T. (1960)**
Thesis, Univ. of Delaware, 84 p.
Variation in the Middle Atlantic coast population of the gray squeteague, *Cynoscion regalis* (Bloch and Schneider) 1801
- DA 21 (7) : 2059. The variation in certain morphometric and meristic characters of *C. regalis* from six localities. Investigates in an attempt to delimit and define the various geographic groups.
- M
61-06923
- Slijper, E. J. (1961)**
Norsk Hvalfangsttid., 50 (2) : 41-54
The still unexplained mystery of the whales. *En No*
- A study of the senses and mechanism of direction and migrations on whales.
- M
61-06924
- Anon. (1961)**
Norsk Hvalfangsttid., 50 (2) : 54-61
Whaling fleet complement season 1960/61. *En No*
- Sizes of whaling fleet crews in 1938/39 and 1945 to 1961.
- M
61-06925
- Anon. (1961)**
Norsk Hvalfangsttid., 50 (2) : 62-74
Catch material in the season 1960/61. *En No*
- Number of floating factories and catchers.
- M
61-06926
- Anon. (1961)**
Norsk Hvalfangsttid., 50 (2) : 77-9
Catch reports—Pelagic catch in the season 1960/61. *En No*
- Catching periods and production of oil.
- M
61-06927
- Anon. (1961)**
Norsk Hvalfangsttid., 50 (2) : 79
Catch reports from South Georgia. *En No*
- Production of sperm oil during 1958-59, 1959-60 and 1960-61 seasons.

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Effect of fish poisons on water supplies. 2. Odor problems

Co 61-07017. Reports on the results of experiments aimed at assessing the odor potential of various fish poison formulations and the ability of water treatment processes to remove these odors.

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U.S. Public Health Serv., mimeo, 22 p.
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- Weber, D. T. (1959)** F
61-07020
Dingell-Johnson Project F-1-R-9, 33 p.
Test netting and seining of northern lakes 1959

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- Sowards, C. L. (1960)** F
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Dingell-Johnson Project F-1-R-8, 24 p.
Creel census and trout stocking evaluation Iron Creek Lake, South Dakota 1957-1959

Account of observations to obtain information upon which to base a program that would determine anglers' success, utilization of hatchery reared trout and establish guide lines for management.

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Dingell-Johnson Project F-1-R-8, 15 p.
Enemy swim lake fisherman harvest study 1958

Account of investigations on the fishing intensity and estimation of catch during 1958-1959 creel census period. Netting operations show that pan fish dominates fish population.

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 Measuring the production of marine phytoplankton

Ci 584291 and 59-4674. A detailed review of chemical composition of phytoplankton, conversion factors, methods of measurement of standing crop and rate of photosynthesis, kinetics of unicellular growth and decay and observations on rapid population changes in their nature—plankton blooms. Incl. section on terminology.

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Salm. Trout Mag., (160) : 176-85
 Land drainage and its dangers as experienced in Sweden—2.

Co 61-03267. Presents the results of a questionnaire issued to property-holders along Swedish stream affected by river regulation asking for their opinion of its value with respect to yield from the land, effect on subsoil water, hunting, damage to the amenities, etc.

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Went, A. E. J. (1960)
Salm. Trout Mag., (160) : 186-91
 A pamphlet by James Hector and its background

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Gunston, D. (1960)
Salm. Trout Mag., (160) : 200-3
 How well can fish see?

CR 583297. A popular article on the subject.

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61-07027

Sedgwick, D. (1960)
Salm. Trout Mag., (160) : 204-10
 Planting salmon

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A detailed discussion of their efficiency, with respect to salmonid passage.

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- Incl. comparison with *E. muticus*, and key to related spp.—*Trichiurus lepturus* and *Lepturacanthus savala*.
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J. Mar. biol. Ass. India, 1 (2) : 143-64
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- Describes series and stages of *Panulirus* and *Jasus* collected by 'Kalava' and 'Jumna', 1958-59.

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61-07035*J. Mar. biol. Ass. India*, 1 (2) : 165-77

On marine Polychaeta from Mandapam (South India)

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61-07037*J. Mar. biol. Ass. India*, 1 (2) : 180-97

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Edited version of thesis of Univ. of Madras. Ecology and influence of physical and chemical environmental factors; community sequences.

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Behaviour, feeding and diet observed; review of literature and unpublished information.

Lewis, E. J. & E. A. Gonzalves (1959)M
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 A note on the abnormalities in *Thalamita integra* Dana
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Measurements and notes on 43 cm specimen taken by 'Kalava' 10 Apr. 1959. Only one previous record of juvenile around India.

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J. Mar. biol. Ass. India, 1 (2) : 256On the natural distribution of the Indian cyprinodont fish *Horaichthys setnai* KulkarniExtension to Gulf of Kutch, Bombay. Distribution notes also on *Aphaniops dispar* and *Aplocheilichthys panchor*.

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Morphometry, number of embryos, in 17 specimens landed 12 Nov. 1959 on S. Kanara coast.

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En 61-02315. Presents results of short-term experiments concerning studies on the coefficients of accumulation of sulfur-35, calcium-45, iron-59, cobalt-60, zinc-65, rubidium-86 and zirconium-95, by *Scenedesmus quadricauda*, *Cladophora glomerata* and *Spirogyra* sp.

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 Times of formation of annual rings on scales of Pacific salmon and the growth rate of the humpback salmon
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En 60-9942. Gives a general summary of data on coefficient of accumulation of 16 different radioisotopes by freshwater plants and animals.
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En 61-03837. Account of experiments carried out on embryos of *Dendronotus frondosus*, *Coryphella rufibranchialis*, *Acanthodoris pilosa*, *Onchidoris muricata* and *Cuthona* sp. States that results obtained did not contradict existing viewpoint on role of acetylcholine-choline-sterase enzyme system in originating nervous system functions.
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En 61-03835. Account of observations on the damage caused due to the formation of narrow space between the surface of steel on non-metallic body or shell of the Black Sea barnacle. Gives special reference to *Balanus* spp. Summarizes results obtained.
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 A catalogue of spp. with notes on distribution.

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A catalogue of spp. with notes on the characteristics of the different substractions of their distribution.

Berthois, L. & Y. Le Calvez (1960)M
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Étude de la vitesse de chute des coquilles de foraminifères planctoniques dans un fluide comparativement à celle des grains de quartz (Comparative study of the speed of fall of shells of planktonic foraminifers and of grains of quartz in a fluid)

A comparative mathematical calculation of the speed of fall of both elements.

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Description of various muscles.

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Oliver, D. R. (1960)F
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The macroscopic bottom fauna of Lac La Ronge, Saskatchewan

Summer dredge samples, 1948-53; seasonal, annual, and depth changes in composition and quantities, special reference to amphipods, *Pontoporeia*, and *Chironomus*; ooze types; annotated spp. list of some groups.

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J. Fish. Res. Bd Can., 17 (5) : 647-54
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- Adjustable aquarium described and ill. Provides a means of regulating the effective volume of a tank in relation to variations in prey population. For use in experiments with aquatic organisms preying on *Daphnia pulex*.
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Echosounder observations 1947-58; seasonal, diurnal and annual changes; relations with temperature and solar radiation.

MF

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Kerswill, C. J. (1960)

J. Fish. Res. Bd Can., 17 (5) : 713-20

Effects of proposed Passamaquoddy power project on anadromous fishes in Canadian waters

Atlantic salmon, smelt, alewives, shad, eastern brook trout, and introduced brown trout occur in waters that will be affected. Construction of tidal power dams should overcome the present lack of typical estuarine conditions in the Passamaquoddy area and favour production of anadromous spp. Realization of potential production would depend on satisfactory access from Bay of Fundy to impounded areas.

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J. Fish. Res. Bd Can., 17 (5) : 721-3

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Determinations of upper lethal temperatures; samples from Passamaquoddy Bay.

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 la Baisse Salée de la Tour du Valat (Floristic and faunistic observations of a
 pool of the middle Camargue: " la Baisse Salée de la Tour du Valat ") En De
 Investigation of the modifications in fauna and flora of a pool of variable
 salinities. Phanerogams, phytoplankton, rotifers, crustaceans, insects and
 fishes are studied.
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- Deboutteville, C. D. (1960)**
Vie et Milieu, 11 (2) : 316-8
 L'Institut de Biologie Marine et d'Océanographie de Recife (Brésil) (The
 Marine Biological and Oceanographic Institute of Recife, Brasil)
 Description of laboratory, research boat, and facilities for research.
- M
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- Deboutteville, C. D. (1960)**
Vie et Milieu, 11 (2) : 319
Arenopontia subterranea Kunz (Copepoda) présent a Madère (*Arenopontia*
subterranea Kunz (Copepoda) in Madeira)
 Short note of occurrence.
- M
61-07298
- Laubier, L. (1960)**
Vie et Milieu, 11 (2) : 319-20
 Présence a Banyuls de *Vermiliopsis richardi* Fauvel, polychète Serpulidae
 (Occurrence in Banyuls of *Vermiliopsis richardi* Fauvel, polychaete Serpulidae)
 Note of occurrence.
- M
61-07299
- Vincent, F. (1960)**
Bull. Inst. océanogr. Monaco, (1172) : 23 p.
 Études préliminaires de certaines émissions acoustiques de *Delphinus*
delphis L. en captivité (Preliminary studies of certain acoustic emissions of
Delphinus delphis L. in captivity). En
 Three of the acoustic signals emitted by Mediterranean dolphin in captivity
 have been analysed and a spectral and oscillographic picture has been given.

M

Belloc, G. (1960)

61-07300

Bull. Inst. océanogr. Monaco, (1173) : 4 p.

Catalogue des types de cumacés et de leptostracés du Musée océanographique de Monaco (Catalogue of types of Cumacea and Leptostraca of the Oceanographic Museum of Monaco)

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Distèche, A. & M. Dubuisson (1960)

61-07301

Bull. Inst. océanogr. Monaco, (1174) : 8 p.

Mesures directes de pH aux grandes profondeurs sous-marines (Direct measurements of pH in great submarine depths). En

A glass electrode assembly suited for direct pH measurements at great sea depths was successfully tested down to 2,300 m in the Mediterranean Sea.

M

Schachter, D. (1960)

61-07302

Bull. Inst. océanogr. Monaco, (1175) : 23 p.

Contribution à l'étude écologique des étangs méditerranéens. Quelques données sur les caractères morphologiques et biologiques de la sardine (*Sardina pilchardus* Walb.) de l'étang de Berre (Contribution to the ecological study of Mediterranean ponds. Some information on the morphological and biological characters of the sardine, *Sardina pilchardus* Walb., of the pond de Berre). En

Results of study on 1,893 sardines from the "Étang de Berre", during the fishing carried out in the years 1953 and 1954; biological, racial and morphological characteristics.

M

Belloc, G. (1960)

61-07303

Bull. Inst. océanogr. Monaco, (1177) : 16 p.

Catalogue des types de bryozoaires du Musée océanographique de Monaco (Catalogue of types of Bryozoa of the Oceanographic Museum of Monaco)

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Grubišić, F. (1959)

61-07304

Biljeske, Split, (14) : 8 p., unpag.

Novi podaci o maksimalnim dužinama nekih Jadranskih riba (New data on maximum length of certain Adriatic fishes). Fr

Greatest total lengths, recorded by author over general years, of 44 spp. of teleosts and elasmobranchs compared with sizes observed by other authors.

F

OEEC/EPA. Comité de la Recherche Appliquée (1961)

61-07305

EPA/AR/3777, mimeo, 5 p.

Liste des recommandations émises par la Première Réunion Internationale sur la recherche scientifique en matière de lutte contre la pollution des eaux (Paris, 7 et 8 mars 1961) (List of recommendations issued by the First International Meeting on scientific research in water pollution, Paris, 7 and 8 March 1961)

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Trud. murman. morsk. biol. Inst., 5 (1) : 27 p.
 Ekologicheskii analiz raspredeleniia zhivotnykh v gradientnykh temperaturnykh usloviakh (Ecological analysis of the distribution of animals in thermogradient conditions)
- Incl. tabulation of data on "preferred temperature" by many fish and other aquatic spp. incl. *Oncorhynchus*, *Cyprinus*, *Salmo*, *Carassius*, *Tinca*, *Lota*, *Fundulus*, *Girella* and *Atherinidae*.
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 Paramaribo, Surinam American Technical Cooperative Service, 38 p.
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- TA. Incl. recommendations on marketing of fish.
- Anon.** (1960) M
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Andean Air Mail, 20 (1045) : 2
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 Extraction of agar-agar from drifted seaweeds. Ar
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EPA/AR/3825, mimeo, 23 p.

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Discovery Rep., 30 : 301-408

Studies on *Physalia physalis* (L.) Part 1: Natural history and morphology. Part 2: Behaviour and histology

Rees, W. J. (1961) M
61-07314
Nature, Lond., 190 (4770) : 23
The Portuguese man-of-war

Re 61-07313.

Delamare Deboutteville, C. (1960) MF
61-07315
Paris, Hermann, 740 p.

Biologie des eaux souterraines littorales et continentales (Biology of underground, littoral and continental waters)

Encompasses the following parts: environment, biology, populations, monographic studies, biogeographic documents and dynamic and historical studies.

Crisp, D. J. & P. J. S. Boaden (1961) MF
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Nature, Lond., 190 (4770) : 50
[Review]

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Puntal, 7 (75) : 2-6
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Narrative of oceanographical research.
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Puntal, 7 (75) : 7-11
La pesca de la gamba y de la langosta (Shrimp and spiny lobster fisheries)
Catch, fishing methods and grounds in Spain and West Africa.
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- Aubry, P. V. (1960)
Puntal, 7 (75) : 14-5
Anomalías entre los peces (Anomalies among fishes)
Description of the various types.
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- Joly, F. (1960)
Puntal, 7 (75) : 16-21
El Marruecos marítimo y sus futuras perspectivas (Maritime Morocco and its future perspectives)
Description of the Atlantic and Mediterranean coasts, their environment and fishery resources.
M
61-07325
- Pitt, T. K. (1960)
Mimeo, 2 p.
Research vessel A.T. 'Cameron'—Cruise report No. 28
From 9 Sep.-20 Sep. 1960. Area of operation: E, NE, N Slope of the Grand Bank. Purpose: survey of eastern, northeastern and northern slope of Grand Bank to study distribution and abundance of American plaice and cod.
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Maar, A. (n.d. 1959)

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Introductory check list of fish of the Zambeze sub-region of the Ethiopian region

Incl. bibliography.

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Beaven, G. F. (1960)

Chesapeake Sci., 1 (1) : 2-11

Temperature and salinity of surface water at Solomons, Maryland

Daily values midway down Chesapeake estuary tabulated and averaged for 20-year period. Fluctuations are shown. Relation of Solomons data to those for other parts of the Chesapeake is discussed. Issued also as: *Contr. Chesapeake biol. Lab.*, (132).

MF

61-07329

Manning, J. H. & K. A. McIntosh (1960)

Chesapeake Sci., 1 (1) : 12-20

Evaluation of a method of reducing the powering requirements of soft-shelled clam dredging

Issued also as: *Contr. Chesapeake biol. Lab.*, (133). 'John A. Ryder', dredging research vessel of Maryland Department of Research and Education, was converted from dual-engine to single-engine powering of the pumping and propulsion systems through use of a controllable-pitch propeller designed for the specific application. Tests before and after conversion incl. (1) cruising speed, (2) dredging rates, and (3) fuel requirements of dredging.

MF

61-07330

Mansueti, R. (1960)

Chesapeake Sci., 1 (1) : 21-35

Comparison of the movements of stocked and resident yellow perch, *Perca flavescens*, in tributaries of Chesapeake Bay, Maryland

Issued also as: *Contr. Chesapeake biol. Lab.*, (134). Marking experiments showed that stocked fish originating in estuary tended to leave rivers by random dispersal; residents, on the other hand, were recaptured at or near place of tagging.

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Lear, D. W. (1960)

Chesapeake Sci., 1 (1) : 36-40

Stormy fermenters and coliform bacteria in the soft-shelled clam *Mya arenaria* and its habitat

Issued also as: *Contr. Chesapeake biol. Lab.*, (135). Enumeration, over a season as indication of fecal pollution.

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Chesapeake Sci., 1 (1) : 41-7
 Creel census results on the Northeast River, Maryland, 1958

Issued also as: *Contr. Chesapeake biol. Lab.*, (136). Catch effort, on Channel catfish, largemouth bass and yellow and white perch in this freshwater tidal tributary of Chesapeake Bay.

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Chesapeake Sci., 1 (1) : 48-57
 Salt balance and exchange rate for Chincoteague Bay

Issued also as: *Contr. Chesapeake Bay Inst.*, (45). Analysis of 1951-6 data concerning this estuary with two inlets from the Atlantic. Mathematical model is derived and applied.

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Chesapeake Sci., 1 (1) : 58-65
 Preliminary report on attracting fish by oystershell plantings in Chincoteague Bay, Maryland

Issued also as: *Contr. Chesapeake biol. Lab.*, (137). Three times as many *Centropristes* and other spp. of gamefish trapped on planted as on unplanted areas 1958-9; also more spp. Also determination of practicability of obtaining an oyster set in the area. Improved fish trap design. Fish tagging experiments.

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Chesapeake Sci., 1 (1) : 66-8
 Supplemental survey of soft-shelled clam bottoms in tidewater Somerset County, Maryland

Issued also as: *Contr. Chesapeake biol. Lab.*, (138). Survey of *Mya arenaria*, 25 Aug.-2 Sep. 1959. Sixty-five areas sampled by commercial hydraulic clam dredge.

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Chesapeake Sci., 1 (1) : 68-71
 Additional comments on adult bull sharks *Carcharhinus leucas* (Müller & Henle), from Chesapeake Bay, Maryland

Issued also as: *Contr. Chesapeake biol. Lab.*, (139). Measurements comparable to those listed by Bigelow & Schroeder are recorded along with the proportional dimensions in percent of total length for an adult male and female.

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Chesapeake Sci., 1 (1) : 71-2
 Notes on the soft-shell turtle (*Trionyx*) in Maryland waters
- Issued also as: *Contr. Chesapeake biol. Lab.*, (140). Capture of an adult *T. ferox spinifera* (LeSueur), in brackish water of a branch of West River, a tributary of Chesapeake Bay, is regarded as an example of introduction by man from an out-of-state source.
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- Sieling, F. W.** (1960)
Chesapeake Sci., 1 (1) : 73-4
 Mass mortality of the starfish, *Asterias forbesi*, on the Atlantic coast of Maryland
- Issued also as: *Contr. Chesapeake biol. Lab.*, (141). Great numbers washed ashore along Worcester County, Maryland, during an unusually severe storm in Feb. 1960. Length frequency distribution bimodal, suggesting two age groups. Large numbers of *Spisula solidissima* were also washed ashore.
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- Murphy, G. J.** (1960)
Chesapeake Sci., 1 (1) : 74-5
 Availability of striped bass during summers of 1958 and 1959 as reflected in commercial haul seine catch
- Issued also as: *Contr. Chesapeake biol. Lab.*, (142). Analysis of the Maryland summer haul seine fishing effort and landings of *Roccus saxatilis*.
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 Comments on the roughtail stingray, *Dasyatis centroura*, in Maryland waters
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Progr. Fish-Cult., 22 (3) : 99-102
 Competitive survival ability of brook, brown, and rainbow trout fingerlings in a stream-fed raceway
- Describes an experiment with *Salvelinus fontinalis*, *Salmo trutta* and *S. gairdnerii* to determine importance of interspecific competition and the natural productivity of an artificial stream.
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- Lennon, R. E. & P. S. Parker** (1960)
Progr. Fish-Cult., 22 (3) : 102
 An outbreak of columnaris disease in stonerollers
- Describes outbreak in *Camptostoma anomalum* in Little River, Great Smoky Mts. National Park, in May 1959. *Hypentelium nigricans* shared the affliction.

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| <i>Progr. Fish-Cult.</i> , 22 (3) : 103-8 | |
| Collection and preservation of fish and other materials exposed to pesticides | |
| Discusses methods for the handling of stream and lake water, fish, aquatic vegetation, aquatic invertebrates, bottom sediments, and other selected materials which are to be examined by histologists and biochemists. | |
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| Describes taking of a wild <i>Salvelinus fontinalis</i> which had dorsal segments missing from two arches. | |
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| A review of the use of gonadotrophins to induce fish to spawn. | |
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| <i>Progr. Fish-Cult.</i> , 22 (3) : 114-6 | |
| "Sunburning" fingerling lake trout with ultra-violet light and the effect of a niacin-fortified diet | |
| Describes experiments to determine the cause and prevention of a type of head lesion in <i>Salvelinus namaycush</i> held outdoors. | |
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| Panikkar, B. M. (1960) | 61-07347 |
| <i>Progr. Fish-Cult.</i> , 22 (3) : 117-20 | |
| Low concentrations of calcium hypochlorite as a fish and tadpole poison applicable for use in partly drained ponds and other small bodies of water | |
| Describes a study to evaluate usefulness of $\text{Ca}(\text{OCl})_2 \cdot 4\text{H}_2\text{O}$ as a toxicant; experimental animals were: <i>Lepomis cyanellus</i> , <i>Carassius auratus</i> , <i>Ictalurus melas</i> , <i>Notemigonus crysoleucas</i> , and <i>Rana catesbiana</i> . | |
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| A feeding device for fish-conditioning experiments | |
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 Applications of a boat-rigged direct-current shocker on lakes and streams in west-central Wisconsin
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- Describes construction and operation of trap to replace wire trap formerly used in Oklahoma.
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 A small boat with wheels
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- Describes construction and operation of a trawl which can be towed by outboard motor boat.
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 A selective disease agent in perch
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Progr. Fish-Cult., 22 (3) : 138-40

A unitized system of water-level and fish population control structures for spawning sloughs

Describes construction and operation of a structure of interlocking metal sheet piling equipped in a water-gate to which fishways, fry traps, etc. can be attached.

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 [No title]

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Anon. (1960) F
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A note on presence of toxaphene in tissues of *Ictalurus melas* seven months following lake treatment.

Buck, D. H. & M. Whitacre (1960) FG
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 A new method and a new material for screening fish

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Progr. Fish-Cult., 22 (3) : 143
 Trout stocking by air drop of plastic bags

Describes tests made to determine the best use of plastic bags for this purpose.

Snow, J. R. (1960) G
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 System to warn of water stoppage in hatcheries

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Die Stückgewichtszunahme der Speisekarpfen im Jahre 1959 in einer Teichgruppe des VEB Binnenfischerei Königswartha (The individual growth in weight during 1959 of consumption carp in a group of ponds owned by the Governmental Inland Water Cooperative of Königswartha)

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Dtsch. FischZtg., 7 (8) : 249-50

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Rearing; lipids, *Sacculina* parasitization; hormone studies; paper chromatography of amino acids of haemolymph; serum proteins by electrophoresis.

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Bol. Soc. Cear. Agron., 1 : 83-101

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Taxonomy, distribution, fishing methods, food, reproduction, predatorial index, parasites, and means of eradication of the sp.

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Anderson, B. G. (1960)

Tech. Rep. Taft sanit. Engng Cent., (W60-3) : 94-5

The toxicity of organic insecticides to *Daphnia*

Data on concentrations of various insecticides required to immobilize *Daphnia magna* in 50 hours.

MF

61-08118

Bond, C. E., R. H. Lewis & J. L. Fryer (1960)

Tech. Rep. Taft sanit. Engng Cent., (W60-3) : 96-101

Toxicity of various herbicidal materials to fishes

Data on median tolerance limits of various chemicals for largemouth bass, chinook and coho salmon.

F

61-08119

Cottam, C. (1960)

Tech. Rep. Taft sanit. Engng Cent., (W60-3) : 102-5

Panel summary

Summary and conclusions on the problems and present state of knowledge on the effects of insecticides on aquatic animals.

F

61-08120

Fry, F. E. J. (1960)

Tech. Rep. Taft sanit. Engng Cent., (W60-3) : 106-9

The oxygen requirements of fish

Summary of the oxygen consumption and requirements and factors affecting these.

MF

61-08121

Brett, J. R. (1960)

Tech. Rep. Taft sanit. Engng Cent., (W60-3) : 110-7

Thermal requirements of fish—Three decades of study, 1940-1970

Three decades of research on temperature relations in fish, and cold-blooded animals generally, are discussed. Speculation on the trends in the next decade are made from a survey of current literature.

F

61-08122

Bartsch, A. F. (1960)

Tech. Rep. Taft sanit. Engng Cent., (W60-3) : 118-27

Settleable solids, turbidity, and light penetration as factors affecting water quality

Description of the effects of suspended matter on the aquatic life.

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61-08123
Tech. Rep. Taft sanit. Engng Cent., (W60-3) : 128-34
Environmental requirements of oysters in relation to pollution
- CR 61-04791. Description of the effect of pollution on oysters by affecting the character of bottom and the food for oysters.
- Swift, E. (1960)** G
61-08124
Tech. Rep. Taft sanit. Engng Cent., (W60-3) : 135-8
A conservationist's view on the practical application of biological findings
- Review of administrative aspects.
- Pearson, E. A. (1960)** F
61-08125
Tech. Rep. Taft sanit. Engng Cent., (W60-3) : 139-44
What does the sanitary engineer expect of the biologist in the solution of water pollution problems ?
- Discussion and presentation of a comprehensive water pollution biological evaluation program.
- Burdick, G. E. (1960)** F
61-08126
Tech. Rep. Taft sanit. Engng Cent., (W60-3) : 145-8
The use of bioassays by the water pollution control agency
- The advantages and disadvantages of some methods of bioassay and calculation of results are discussed in relation to their adaptability for the solution of specific problems of the water pollution control agency.
- Gehm, H. W. (1960)** F
61-08127
Tech. Rep. Taft sanit. Engng Cent., (W60-3) : 149-51
What does industry expect of the biologist and how can his findings be applied to industrial waste problems ?
- Deals with the application of biology to the manufacture of pulp and paper products and problems related to such manufacture, incl. effluent treatment and stream pollution control.
- Biglane, K. E. (1960)** F
61-08128
Tech. Rep. Taft sanit. Engng Cent., (W60-3) : 152-5
Application of biological findings to water pollution problems in Louisiana
- Relates the views of water quality control and abatement procedures of a state authority, whose aquatic researches and policies are guided by a predominantly biological staff.

Renn, C. E. (1960)F
61-08129*Tech. Rep. Taft sanit. Engng Cent.*, (W60-3) : 156-9

Biological aspects of industrial waste problems

Stresses the importance and need for studies on physiological action of wastes upon aquatic animals and plants.

Waldichuk, M. (1960)MF
61-08130*Tech. Rep. Taft sanit. Engng Cent.*, (W60-3) : 160-76

Effects of pulp and paper mill wastes on the marine environment

Physical characteristics of the bays and inlets of British Columbia; characteristics of pulp and paper mill wastes, their effects on marine and estuarine environment in the areas in question.

ZoBell, C. E. (1960)M
61-08131*Tech. Rep. Taft sanit. Engng Cent.*, (W60-3) : 177-83

Marine pollution problems in the southern California area

Public health and economic aspects of marine pollution and survival of coliform bacteria in the sea.

Gunter, G. (1960)MF
61-08132*Tech. Rep. Taft sanit. Engng Cent.*, (W60-3) : 184-8

Pollution problems along the Gulf coast

Description of some marine pollution problems along this coast, specially in respect of oysters.

McNulty, J. K., E. S. Reynolds & S. M. Miller (1960)MF
61-08133*Tech. Rep. Taft sanit. Engng Cent.*, (W60-3) : 189-202

Ecological effects of sewage pollution in Biscayne Bay, Florida; distribution of coliform bacteria, chemical nutrients, and volumes of zooplankton

Ketchum's Intertidal Volume Concept is applied to the distribution of coliform bacteria in Biscayne Bay. Data on chemical nutrients, plankton volumes and water color are presented and discussed.

Nelson, T. C. (1960)MF
61-08134*Tech. Rep. Taft sanit. Engng Cent.*, (W60-3) : 203-11

Some aspects of pollution, parasitism and inlet restriction in three New Jersey estuaries

Description of direct and indirect damage to oysters, caused by pollution.

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- Ketchum, B. H. (1960)** MF
61-08135
Tech. Rep. Taft sanit. Engng Cent., (W60-3) : 212-7
Marine pollution problems in the North Atlantic area
- Notes on distribution of pollutants in estuaries and on distribution and mixing of pollutant disposed from a barge. Issued also as: *Contr. Woods Hole oceanogr. Instn.*, (1035).
- Nelson, T. C. (1960)** MF
61-08136
Tech. Rep. Taft sanit. Engng Cent., (W60-3) : 218-21
Panel summary
- Summary discussion on the marine and estuarine pollution problems and progresses in the investigations of these problems.
- Gordon, S. (1960)** G
61-08137
Tech. Rep. Taft sanit. Engng Cent., (W60-3) : 222-5
An administrator looks at the pollution problem
- General review from public and administrative point of view.
- Cottam, C. & C. M. Tarzwell (1960)** MF
61-08138
Tech. Rep. Taft sanit. Engng Cent., (W60-3) : 226-32
Research for the establishment of water quality criteria for aquatic life
- Research requirements on various subjects for establishment of water quality criteria for aquatic life.
- Swift, E. (1960)** MF
61-08139
Tech. Rep. Taft sanit. Engng Cent., (W60-3) : 233-6
Summary of second seminar on biological problems in water pollution
- General evaluation of the seminar.
- Gaufin, A. R. (1960)** F
61-08140
Tech. Rep. Taft sanit. Engng Cent., (W60-3) : 237
Biological indicators of organic enrichment in fresh water
- Short summary on the results of informal group discussion on the subject.
- Mohr, J. L. (1960)** M
61-08141
Tech. Rep. Taft sanit. Engng Cent., (W60-3) : 237-9
Biological indicators of organic enrichment in marine habitats
- Short summary on the results of informal group discussion on the subject.

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61-08142
Tech. Rep. Taft sanit. Engng Cent., (W60-3) : 239-40
Advanced specialized technical training in pollution biology
Short summary on the results of informal group discussion on the subject.
- Weiss, C. M.** (1960) MF
61-08143
Tech. Rep. Taft sanit. Engng Cent., (W60-3) : 240-1
Identification of toxicants by physiological responses of fishes
Short summary on the results of informal group discussion on the subject.
- Hooper, F. F.** (1960) F
61-08144
Tech. Rep. Taft sanit. Engng Cent., (W60-3) : 241-6
Population control by chemicals and some resulting problems
Short summary on the results of informal group discussion on the subject.
- Henderson, C.** (1960) F
61-08145
Tech. Rep. Taft sanit. Engng Cent., (W60-3) : 246-8
Bioassay procedures, aims, and equipment
Short summary on the results of informal group discussion on the subject.
- Doudoroff, P.** (1960) F
61-08146
Tech. Rep. Taft sanit. Engng Cent., (W60-3) : 248-50
How should we determine dissolved oxygen criteria for fresh water fishes ?
Short summary on the results of informal group discussion on the subject.
- Heukelekian, H.** (1960) MF
61-08147
Tech. Rep. Taft sanit. Engng Cent., (W60-3) : 250-1
The problem of nuisance growth due to organic enrichment
Short summary on the results of informal group discussion on the subject.
- Lauff, G. H.** (1960) MF
61-08148
Tech. Rep. Taft sanit. Engng Cent., (W60-3) : 251-3
The significance of periphyton on natural and artificial substrates
Short summary on the results of informal group discussion on the subject.
- Black, H. H.** (1960) MF
61-08149
Tech. Rep. Taft sanit. Engng Cent., (W60-3) : 253-5
The pulp and paper mill waste problem
Short summary on the results of informal group discussion on the subject.

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Tech. Rep. Taft sanit. Engng Cent., (W60-3) : 255-6
 Composition of sulfite waste liquor
- Lueck, B. F.** (1960) F
61-08151
Tech. Rep. Taft sanit. Engng Cent., (W60-3) : 257-60
 The conversion of spent sulfite liquor into useful products
 Short summary on the results of informal group discussion on the subject.
- Ingram, W. M. & A. F. Bartsch** (1960) F
61-08152
Tech. Rep. Taft sanit. Engng Cent., (W60-3) : 260-3
 Graphic presentation of biological data for water pollution survey reports
 Short summary on the results of informal group discussion on the subject.
- Surber, E. W.** (1960) F
61-08153
Tech. Rep. Taft sanit. Engng Cent., (W60-3) : 263-6
 Effective methods for collecting and recording data from water pollution surveys
- Wurtz, C. B.** (1960) F
61-08154
Tech. Rep. Taft sanit. Engng Cent., (W60-3) : 266-7
 Biological stream survey data
- Fetterolf, C. M.** (1960) MF
61-08155
Tech. Rep. Taft sanit. Engng Cent., (W60-3) : 267-9
 How can the biologist best function in water pollution surveys ?
 Short summary on the results of informal group discussion on the subject.
- Wilson, J.** (1960) F
61-08156
Tech. Rep. Taft sanit. Engng Cent., (W60-3) : 269-71
 The effects of erosion, silt, and other inert materials on aquatic life
 Short summary on the results of informal group discussion on the subject.
- Walker, C. R.** (1960) F
61-08157
Tech. Rep. Taft sanit. Engng Cent., (W60-3) : 272
 Herbicides
 Short summary on the results of informal group discussion on the subject.
- Lafleur, R. A.** (1960) MF
61-08158
Tech. Rep. Taft sanit. Engng Cent., (W60-3) : 273
 Oil refinery waste problems
 Short summary on the results of informal group discussion on the subject.

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 Refinery waste problems
- Dorris, T. C., Wm. Gould & C. R. Jenkins** (1960) F 61-08160
Tech. Rep. Taft sanit. Engng Cent., (W60-3) : 276-85
 Toxicity bioassay of oil refinery effluents in Oklahoma
- Moiseev, P. A.** (1960) M 61-08161
Trud. Soveshch. ikhtiolog. Kom., 10 : 139-48
 Tikhookeanskii bassein. O nekotorykh zakonomernostiakh raspredeleniia i biologii promyslovoi ikhtiofauny zapadnoi chasti Tikhogo okeana (Pacific basin. On some rules of the distribution and biology of the commercial ichthyofauna of the western part of the Pacific)
- Ivlev, V. S.** (1960) MF 61-08162
Zool. Zh., 39 (4) : 494-9
 Analiz mekhanizma raspredeleniia ryb v usloviakh temperatur'nogo gradienta (Analysis of fish distribution mechanism under the conditions of thermogradient). En
 Presents values of the velocity of movement of salmon and carp fry at various temperatures and plots theoretical curves of fry distribution under the conditions of thermogradient.
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 Observations on the ecology and distribution of the Florida seagrasses
 Morphology, reproduction, growth, ecology in relation to temperature, salinity and bottom substrata; distribution and depth zonation.
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Zool. Listy, 9 (1) : 59-70
 Podzimní plankton několika Československých přehrad (The autumn plankton of some Czechoslovakian water reservoirs). De
 Lists of zooplankton spp. with quantitative estimates of abundance of spp. Some qualitative phytoplankton lists also given.
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Zool. Listy, 9 (1) : 71-82
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 Short description of the food and environmental requirements of *Ctenopharyngodon idella* and *Hypophthalmichthys molitrix* and results of experiments with their transplantation in USSR.

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 Report on a small collection of Mysidacea from Singapore waters
- List of spp. in collection. Five recorded for the first time since they were originally described and additional descriptive notes are given. *Gastrosaccus elegans* sp. nov. is described and figured.
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Proc. zool. Soc. Lond., 135 (2) : 209-42
 On the respiration of aquatic Hemiptera Heteroptera with special reference to the Corixidae
- Comparative review of subject with special reference to *Corixa*.
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Proc. zool. Soc. Lond., 135 (2) : 243-60
 The development of the lamellibranch *Cardium edule* L.
- Described from fertilization of eggs to completion of metamorphosis.
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61-08169
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Proc. zool. Soc. Lond., 135 (2) : 283-301
 The pectoral anatomy of *Pantodon buchholzi* Peters (a freshwater flying fish) and the related Osteoglossidae
- Girdle and musculature of this small West African osteoglossid are remarkably developed and probably unique amongst teleosts. Pectoral anatomy of *Heterotis niloticus* and *Osteoglossum bicirrhosum* described.
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 Report on the reduction of sea level observations (1940-1958) for R.E.U.N.
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 Lecture on fishculture in general with special references to Mozambique.
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 Morphometric characteristics of the spp. of fish, fishing methods, miscellaneous information and indigenous names.
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 Notes on catches, government and industrial activities.
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- Reports characterization of the over-all metabolic pathways of islet tissue achieved by studying the effects of specific exogenous substrates and inhibitors on the respiration of islet slices.
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 A study of reproduction in the intertidal barnacle, *Mitella polymerus*, in Monterey Bay, California
- The anatomy of the reproductive system, the relationship between size and sexual reproduction, the seasonal reproductive cycle, the rate of egg and embryo development, an estimate of fecundity, and evidence concerning self-fertilization.
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Description of the characteristics of cold tolerance in the guppy *Lebistes reticulatus* and suggestion of a possible mechanism of death due to "primary chill coma".

M

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Biol. Bull., Woods Hole, 119 (2) : 246-59

Furrowing in flattened sea urchin eggs

Presentation of evidence for the contraction hypothesis.

M

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Surface changes during cell division

Describes the surface behaviour of the eggs of *Arbacia punctulata*.

MF

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Tripp, M. R. (1960)

Biol. Bull., Woods Hole, 119 (2) : 273-82

Mechanisms of removal of injected microorganisms from the American oyster, *Crassostrea virginica* (Gmelin)

Study of the relative importance of two separate defense mechanisms in relation to injected microorganisms.

MF

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Galstoff, P. S. (1960)

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The three hearts of the oyster

Abstr. only.

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Abstr. only.

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Abstr. only.
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Abstr. only.
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Abstr. only.
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Abstr. only.
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Abstr. only.
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Abstr. only.
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Čsl. Rybářství, (5) : 67-8

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Nepříznivý vliv vysokého obsahu organických usazenin v rybníce (Unfavourable influence of a high content of organic deposit in a pond)

Hochman, L. (1959)
Čsl. Rybářství, (5) : 69

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Zkušenosti s chovem jesenů v rybnících (Experience with ide culture in ponds)

Ivaška, S. (1959)
Čsl. Rybářství, (6) : 83-4

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Pokusné osadzovanie hlavátky v menších vodách (Experimental stocking with Danube salmon in smaller rivers)

Ill. experiments carried out in Slovakia with *Salmo hucho*.

Lucký, Z. (1959)
Čsl. Rybářství, (6) : 85-6

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 61-08326

Příčiny úbytku ryb v dolních tocích větších řek. (The causes of the decrease of fishes in the lower reaches of larger rivers)

Kostomarov, B. (1959)
Čsl. Rybářství, (7) : 98-9

F
 61-08327

Aklimatizace nových druhů ryb a jejich význam pro zvyšování biologické produkce našich vod (Acclimatization of new fish species and their importance for the increase of biological production in our waters)

Recommended for re-stocking: *Carassius auratus gibelio*, *Coregonus albula*, *Coregonus peled*, *Hypophthalmichthys malitrix*, *Abramis ballerus*, *Leuciscus idus*.

Dyk, V. (1959)
Čsl. Rybářství, (7) : 99

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Zjišťování výsledků tření ryb ve volných tocích (Determination of fish spawning results in running waters)

Šimek, Z. & Z. Šimek, Jr. (1959)
Čsl. Rybářství, (7) : 100-1

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Růst candáta obecného v Sečské údolní nádrži (The growth of pike perch in the Seč reservoir)

Kopáček, L. (1959)
Čsl. Rybářství, (7) : 101

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Niekoľko poznatkov z umelého liahnutia lieňa (Some observations on the artificial breeding of the tench)

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Čsl. Rybářství, (8) : 115
 Předběžné zhodnocení růstu ryb ve Slapské údolní nádrži (Preliminary estimate of the growth of fishes in the Slapy reservoir)
- Hlavačka, Š.** (1959) F 61-08332
Čsl. Rybářství, (8) : 116
 Niektoré poznatky z hospodárskej ťažby rýb na Dunaji (Some notes on the economical exploitation of fishes in the Danube)
- Frank, S. & J. Vostradovský** (1959) F 61-08333
Čsl. Rybářství, (8) : 117-8
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- Smíšek, J.** (1959) F 61-08335
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- Dohelský, J.** (1959) F 61-08336
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 Růst kapra v Sečské údolní nádrži (The growth of carp in the Seč reservoir)
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- Prokopič, J.** (1959) F 61-08338
Čsl. Rybářství, (10) : 150
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Čsl. Rybářství, (11) : 163
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- Bauer, O. N., I. V. Děmčenko & V. M. Ivasik** (1959) F
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Čsl. Rybářství, (11) : 165
 Provozní zkušenosti s bojem proti infekční vodnatelnosti kaprů) Experiences gained in the control of infectious dropsy)
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- Kirka, A.** (1959) F
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- Bucháček, A.** (1960) F
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- Bastl, I.** (1960) F
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 Jak rychle roste ježdík obecný v našich vodách (How fast does small perch grow in our waters)
 Growth data of *Acerina cernua* in different localities given.
- Šimek, Z.** (1960) F
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Čsl. Rybářství, (2) : 21
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- Soukup, V.** (1960) F
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Čsl. Rybářství, (5) : 69
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Čsl. Rybářství, (6) : 84
Za rozšíření chovu raka v našich vodách (The breeding of crayfish should be increased in our waters)
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- Frank, S.** (1960)
Čsl. Rybářství, (7) : 99
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- Mišík, V. & J. Vostradovský** (1960)
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F

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Dyk, V. (1961)*Čsl. Rybářství*, (3) : 36-7

Bentická zvířena pstružích vod a zvyšování jejich zásob (The benthic fauna in trout rivers and the increase of its growth).

F

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Janeček, V., Jr. (1961)*Čsl. Rybářství*, (3) : 37-8

Minerálním hnojením rybníků zvýšíme produkci (We increase the production of fish ponds with mineral fertilization)

MF

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Kolarov, P. (1958)*Ribno stopanstvo*, 4 (1) : 6-8

Vurkhu prichinite za namalenieto na karag'ozolova u nas (On the causes of the decrease of the karag'oz fisheries in our country)

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Petrova, V. (1958)*Ribno stopanstvo*, 4 (10) : 6-7

Sustoiannie na fitoplanktonolozhkite izledvaniia v Chernom more (The state of the investigations on phytoplankton in the Black Sea)

MF

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Aproveitamento das lagostas do noroeste africano (Use of spiny lobsters of northwest Africa)

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- Konstantinov, G.** (1960) F
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 Prohibits the taking of fish by means of nets of every description, in the specified tidal waters, from 12 Jan. 1961–11 Jan. 1966.

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Govt Gaz. N.S.W., (1) : 1, 6 January 1961

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M

Queensland. Laws, Statutes, etc. (1960)

61-08660

Qd Govt Gaz., (159) : 2234-5

Order in council under the fisheries acts, 1957 to 1959.—8 December 1960

Prohibits the possession or the sale of fish of smaller sizes than those prescribed. Relates to the different varieties of garfish and to whiting of the trumpeter, *Sillago maculata*, variety.

MF

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MF

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F

Western Australia. Laws, Statutes, etc. (1960)

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Regulations to amend the regulations made under the fisheries act, 1905-1960.—17 November 1960

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- Major text, 25 pages, establishing standards, prescribing permissible additives, etc., in respect of all foodstuffs, incl. fish, shellfish, smoked fish, fish and shellfish preserves, etc.
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Such enumeration is made with the exemption to be granted to spp. imported from countries with which trade agreements have been concluded.

M

61-08672

Cuba. Laws, Statutes, etc. (1960)

Gac. ofic. Cuba, I, (127) : 16023-5

Convención entre Cuba y los Estados Unidos de América para la conservación del camarón.—18 de mayo de 1960 (Convention between Cuba and US on the protection of shrimp.—18 May 1960)

Publication of convention signed on 15 Aug. 1958 and ratified by Cuba on 14 Jul. 1959.

M

61-08673

Cuba. Laws, Statutes, etc. (1960)

Gac. ofic. Cuba, I, (107) : 13689

Resolución por la cual se da por terminada la veda de la especie denominada *Panulirus argus* "langosta" a partir del día 15 de junio de 1960.—31 de mayo de 1960 (Resolution terminating the closed season for the species known as rock lobster *Panulirus argus*. 31 May 1960)

Effective 15 Jun. 1960.

F

61-08674

Cuba. Laws, Statutes, etc. (1960)

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Resolución por la cual se establece un período de veda de las especies denominadas langostinos o camarones de río, Carey y tortuga.—31 de mayo de 1960 (Resolution establishing a closed season for the species known as prawns, tortoises and tortugas.—31 May 1960)

15 Jun.—30 Aug. 1960.

M

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Cuba. Laws, Statutes, etc. (1960)

Gac. ofic. Cuba, I, (125) : 15773

Resolución por la cual se establece un período de veda de la especie denominada vulgarmente cangrejo moro, *Menippe mercenaria*, el cual comensará el próximo día 15 de julio de 1960.—28 de junio de 1960 (Resolution establishing a closed season for the species commonly known as "cangrejo moro", *Menippe mercenaria*)

15 Jul.—15. Oct. 1960.

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61-08676
Gac. ofic. Cuba, I, (147) : 18484-5

Resolución por la cual se establece un período de veda de las especies denominadas cubera y caballerote.—20 de julio de 1960 (Resolution establishing a closed season on the species "cubera" and "caballerote", (*Lutajnus pargus* and *Neomoensis grisens*, respectively). 20 July 1960)

From 1 Aug. 1960 until further notice.

Cuba. Laws, Statutes, etc. (1960) MF
61-08677
Gac. ofic. Cuba, I, (163) : 20687-8

Resolución No. 359 por la cual se estabilizan los precios de venta de ciertos artículos. 22 de agosto de 1960 (Resolution No. 359, stabilizing prices of certain articles.—22 August 1960)

Prices of various products, incl. fish and crustaceans, are frozen at levels of the period 8-13 Aug. 1960.

Cuba. Laws, Statutes, etc. (1960) MF
61-08678
Gac. ofic. Cuba, I, (170) : 21544

Resolución por la cual se da por terminada la veda de la especie denominada ostión, *Crassostrea rizophorae*.—31 de agosto de 1960 (Resolution terminating the closed season on the oyster *Crassostrea rizophorae*.—31 August 1960)

As of 1 Sep. 1960. Closed season established as of 1 Jun. 1960 by resolution of 12 May 1960.

France. Laws, Statutes, etc. (1960) M
61-08679
J. off. Rép. franç., (170) : 6761-2

Arrêté du 30 juin 1960 portant réglementation de la récolte du lichen carrageen sur le littoral de la Manche et de l'océan. (Order regulating the harvesting of carrageen lichen on the shores of the English Channel and the ocean.—30 June 1960)

Applies both to *Chondrus crispus* and to *Gigartina mamilliosa*.

France. Laws, Statutes, etc. (1960) F
61-08680
J. off. Rép. franç., (182) : 7341-2

Arrêté du 26 juillet 1960 portant modification de l'arrêté du 16 septembre 1958 autorisant l'emploi de divers filets, engins ou lignes dans certaines eaux de la première catégorie (Order amending the order of 16 September 1958, authorizing the use of various nets, apparatus or lines in certain first-category waters.—26 July 1960)

Modifies annex to the order of 16 Sep. 1958 in respect of inland waters of 15 departments.

MF

France. Laws, Statutes, etc. (1960)

61-08681

J. off. Rép. franç., (246) : 9562-4

Décret n° 60-1122 du 17 octobre 1960 portant règlement d'administration publique pour l'application des articles 5 et 7 de la loi du 19 décembre 1917 modifiée relative aux établissements dangereux, insalubres ou incommodes (Decree No. 61-1122, prescribing regulations for the application of arts. 5 and 7 of the act of 19 December 1917, as amended, relating to dangerous, unhealthy or objectionable establishments.—17 October 1960)

Prescribes further amendments to the table annexed to the decree of 20 May 1953, as amended, in respect of air and water pollution by radioactive substances.

M

France. Laws, Statutes, etc. (1960)

61-08682

J. off. Rép. franç., (289) : 11150

Arrêté du 23 novembre 1960 autorisant la pêche des coquilles Saint-Jacques sur les bancs situés à l'intérieur des eaux territoriales françaises dans les quatre premiers arrondissements maritimes (Order authorizing the harvesting of scallops on the banks lying within French territorial waters in the first four maritime regions.—23 November 1960)

Annual open season from 1 Sep. to not later than 15 May, on the coast between the Spanish and Belgian borders. Revokes decree of 2 Feb. 1934 on same subject.

F

France. Laws, Statutes, etc. (1960)

61-08683

J. off. Rép. franç., (289) : 11151

Arrêté du 1er décembre 1960 relatif au transfert au ministère de l'agriculture (administration des eaux et forêts) de la surveillance, de la police et de l'exploitation de la pêche dans les voies d'eau relevant du ministère des travaux publics et des transports (Order transferring to the Ministry of Agriculture, Administration of Waters and Forests, the control, police and exploitation of fishing in certain water courses under the jurisdiction of the Ministry of Public Works and Transports.—1 December 1960)

Affects the Bruche canal and the Loire.

M

France. Laws, Statutes, etc. (1960)

61-08684

J. off. Rép. franç., (286) : 11058-9

Arrêté du 1er décembre 1960 portant réglementation de la pêche sous-marine sur l'ensemble du littoral métropolitain (Order regulating under-water fishing for the entire sea coast of continental France.—1 December 1960)

Repeals the order of 4 Jun. 1951 on the same subject.

REFERENCES

France. Laws, Statutes, etc. (1960)

MF
61-08685

J. off. Rép. franç., (292) : 11273-5

Décret n° 60-1341 du 8 décembre 1960 portant publication et mise en vigueur provisoire du protocole additionnel à la convention commerciale et tarifaire francotunisienne du 5 septembre 1959 signé à Tunis le 22 septembre 1960 entre le Gouvernement de la République française et le Gouvernement de la République tunisienne (Decree No. 60-1341, publishing and placing provisionally in force the additional protocol to the Franco-Tunisian trade and tariff convention of 5 September 1959, signed 22 September 1960.—8 December 1960)

Tunisia grants tax exemption, *inter alia*, for many fish imports.

France. Laws, Statutes, etc. (1960)

M
61-08686

J. off. Rép. franç., (293) : 11359

Arrêté du 8 décembre 1960 modifiant les articles 6 et 10 de l'arrêté du 8 février 1954 relatif au maillage des arts trainants et à la taille marchande des poissons en mer du Nord, Manche et Atlantique (Order amending arts. 6 and 10 of the order of 8 February 1954 relating to trawl-net mesh sizes and trade size of fish of the North Sea, English Channel and Atlantic.—8 December 1960)

In view of the recommendations of the 8th Session, May 1960, of the Permanent Committee under the London Convention of 1946.

France. Laws, Statutes, etc. (1960)

M
61-08687

J. off. Rép. franç., (301) : 11909

Loi n° 60-1437 du 27 décembre 1960 portant extension du bénéfice des prestations familiales aux marins pêcheurs non salariés et aux inscrits maritimes embarqués au cabotage et à la navigation côtière des départements d'outre-mer (Act No. 60-1437, extending the benefits of family allowances to non-salaried deep-sea fishermen and enrolled sea personnel in transportation and coastal navigation in the overseas departments.—27 December 1960)

France. Laws, Statutes, etc. (1960)

MF
61-08688

J. off. Rép. franç., (302) : 11973-4

Décret n° 60-1443 du 27 décembre 1960 modifiant les tarifs des droits de douane d'importation (Decree No. 60-1443, modifying the import customs tariff.—27 December 1960)

Complete revision and republication. Covers fishery products. Import customs tariff tables annexed, p. 1-280.

France. Laws, Statutes, etc. (1961)

MF
61-08689

J. off. Rép. franç., (6) : 316-8

Décret n° 60-1524 du 30 décembre 1960 sur le contrôle de la fabrication des conserves et semi-conserves de poissons, crustacés et autres animaux marins (Decree No. 60-1524, relating to the control of manufacture of preserves and semi-preserves of fish, shell-fish and other marine animals—30 December 1960)

Detailed quality control measures. Abrogates decree No. 49-1405 of 5 Oct. 1949.

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Algeria. Laws, Statutes, etc. (1960)

MF
61-08690

Rec. Actes adm. Algeria, (101) : 2833-4

Arrêtés du 15 novembre 1960 créant à la délégation générale en Algérie une commission relative à la circulation en Algérie du poisson par véhicules routiers, wagons ou containers isothermes réfrigérants ou frigorifiques et désignant les président, membres et experts de la dite commission (Orders relative to the setting up, within the general delegation in Algeria, of a commission for the transport of fish in Algeria by constant-temperature, refrigerating or freezing road vehicles, trucks or containers, and designating the president, members and experts of the said commission.—15 November 1960)

Ad 60-8855. Made pursuant to the order of 30 Mar. 1960 relative to said transport of fish.

Algeria. Laws, Statutes, etc. (1961)

M
61-08691

Rec. Actes adm. Algeria, (9) : 339

Décision n° 61-1 EC/R/4 du 20 janvier 1961 prévoyant le paiement par la caisse algérienne d'intervention économique d'une subvention aux sauteurs du quartier de l'inspection maritime de Nemours (Decision No. 61-1 EC/R/4 providing for the payment of a subsidy by the Algerian fund for economic adjustments to the salters of Nemours.—20 January 1961)

On anchovies sold at fixed prices during the 1960 season.

Guadeloupe. Laws, Statutes, etc. (1960)

M
61-08692

Rec. Actes adm. Guadeloupe, (50) : 646-50

Arrêté n° 60-2-067 portant réglementation de l'exercice de la pêche maritime côtière dans les eaux du département de la Guadeloupe.—23 novembre 1960 (Order No. 60-2-067, regulating off-shore fishing in the waters of the Guadeloupe department.—23 November 1960)

Extensive regulations governing fishing within three miles from the shore, and in parts of rivers, torrents, lagoons and ponds near to the sea, the water of which is still salted. Prohibitions to use certain gear and fishing methods; to destroy fry; to take fish and molluscs under a specified size, etc.

Germany. Eastern. Laws, Statutes, etc. (1960)

F
61-08693

GesBlatt dtsh. demokrat. Rep. (1), (47) : 477-8

Zweite Durchführungsbestimmung zum Fischereigesetz.—Fischereiaufsicht der Binnengewässer (Second executive provision relative to the fisheries act. Supervision of fisheries in inland waters.—10 August 1960)

Made pursuant to the fisheries act of 2 Dec. 1959. Provisions of an administrative character.

Germany. Federal Republic. Laws, Statutes, etc. (1960)

MF
61-08694

MinistBl. Germ. fed. Rep., (15) : 311-2

Gesetz über eine Fischereistatistik (Act relative to fisheries statistics.—21 July 1960)

Prescribes the scope, form, information and procedure stipulated for statistics to be carried out on deep sea and coastal fisheries, as well as on Lake Constance fisheries.

M
61-08695

Germany. Federal Republic. Laws, Statutes, etc. (1960)
MinistBl. Germ. fed. Rep., (22) : 530

Verordnung über die Benennung von Waren als landwirtschaftliche Erzeugnisse im Sinne des Gesetzes gegen Wettbewerbsbeschränkungen (Ordinance relative to the designation of goods as agricultural products within the meaning of the act against restrictions on competition, of 27 July 1957. (*BGBL. I*, p. 1081).—29 October 1960)

Within the meaning of the act aforesaid the following are defined as agricultural products: salt fish, cooked, salt or dried shrimps.

M
61-08696

Italy. Laws, Statutes, etc. (1960)
Gazz. uff. Italy, (246) : 3786

Decreto del Presidente della Repubblica n. 1046, del 28 agosto 1960. Determinazione del prezzo special di vendita del sale comune per la salagione dei pesci, da prelevarsi presso gli stabilimenti di produzione (Decree No. 1046 of the President of the Republic establishing the special selling price of common salt for the salting of fish to be charged at the production premises.—28 August 1960)

The special rate of 900 lire per quintal is charged for quantities of not less than 5000 quintals at a time, subject to the other conditions specified.

F
61-08697

Luxembourg. Laws, Statutes, etc. (1960)
Mém. Grand-Duché Luxemb., (58) : 1360-1

Arrêté ministériel du 28 septembre 1960 concernant le repeuplement des cours d'eau affectionnés par les salmonidés (Ministerial order relative to the restocking of watercourses frequented by salmonides.—28 September 1960)

Pursuant to the act of 21 Mar. 1947 relative to inland waters fisheries. Specifies the watercourses concerned.

MF
61-08698

Madagascar. Laws, Statutes, etc. (1960)
J. off. Rép. malgache, (132) : 2400-1

Décret N° 60-447 du 4 novembre 1960, instituant le comité de chasse, de la pêche et de la protection de la faune prévu par l'article 32 de l'ordonnance N° 60-126 du 3 octobre 1960 (Decree No. 60-447, establishing the committee on hunting, fishing and wildlife protection, provided for by article 32 of ordinance No. 60-126 of 3 October 1960.—4 November 1960)

Fixes the composition and the functions of the committee.

M
61-08699

Morocco. Laws, Statutes, etc. (1960)
Bull. off. Emp. chérif., (2499) : 1710-1, 1721-2

Accord commercial entre le Royaume du Maroc et la République démocratique allemande.—8 août 1960 (Trade agreement between the Kingdom of Morocco and the German Democratic Republic.—8 August 1960)

Imports incl., *inter alia*, frozen sardines and fishmeal.

M

Netherlands. Laws, Statutes, etc. (1960)

61-08700

Staatsblad Neth., texts 409-412 : 1063

409. Wet van 28 september 1960 tot goedkeuring van de opzegging van het walvisverdrag (409. Act approving the denunciation of the whaling treaty of Washington, of 2 December 1946.—28 September 1960)

M

Netherlands. Laws, Statutes, etc. (1960)

61-08701

Staatsblad Neth., texts 409-412 : 1063-4

410. Wet van 28 september 1960, houdende nieuwe regelen betreffende de uitoefening van de walvisvangst. (Wet op de walvisvangst 1960) (410. Act specifying new rules relative to whaling. Short title: 1960 whaling act.—28 September 1960)

Repeals similar act, *Staatsblad Neth.* 98 of 1951.

MF

Netherlands. Laws, Statutes, etc. (1960)

61-08702

Staatsblad Neth., texts 429-430 : 1101

430. Besluit van 28 oktober 1960, houdende enige voorzieningen in verband met de instelling van een bedrijfsschap voor de visconservenindustrie (430. Decree specifying certain measures relative to the establishment of a cooperative association for canned fish.—28 October 1960)

Prescribes the number of members of the board and employers' and workers' organizations qualified to send a specific number of members to the association in question.

M

Norway. Laws, Statutes, etc. (1959)

61-08703

Norsk Lovtid., (7) : 227-31

Kongelig resolusjon om endr. i bestem. om saltvannsfiskeriene. Fredning og havdeling i Finnmark (Royal resolution amending the provisions governing saltwater fisheries. Protection and zoning of the sea in the Finnmark province.—20 January 1959)

Pursuant to the saltwater fisheries act of 17 Jun. 1955, art. 4, it is prescribed that arts. 16 and 19 of the resolution of 22 Dec. 1955 shall be amended in accordance with the present text which prohibits until 31 Dec. 1963 the use of pursenets and other nets for herring, brisling, mackerel, and capelan fishing in various precisely defined areas in the Finnmark province.

M

Norway. Laws, Statutes, etc. (1959)

61-08704

Norsk Lovtid., (44) : 1240-1

Kongelig resolusjon om endr. i bestem. om saltvannsfiskeriene (merking av faststående redskaper) (Royal resolution amending the resolution of 22 December 1955 relative to salt water fisheries.—4 December 1959)

The amended art. 21 of the earlier resolution refers to provisions governing the marking of permanent fishing equipment, buoys, radar reflectors, etc.

REFERENCES

Paraguay. Laws, Statutes, etc. (1960) F
61-08705
Separate publication

Resolución No. 323 por la cual se reglamenta la pesca en los ríos y arroyos del territorio nacional.—5 de noviembre de 1960 (Resolution No. 323 regulating fishing in the rivers and streams within the national territory.—5 November 1960)

Fishing with explosives or toxic substances forbidden. Net fishing forbidden from 1 Nov. to the end of February.

Philippines. Laws, Statutes, etc. (1960) F
61-08706
Off. Gaz. Philippines, (47) : 7155

Republic act No. 2675. An act making fertilizers available to fishpond owners or operators at reasonable prices, amending for the purpose section 1 of Republic act No. 1609. (H.N. 3974).—18 June 1960

Section 1 of act No. 1609 shall read: "It is hereby declared to be the national policy to encourage the more rapid expansion of agricultural production, and to increase farm productivity by making available to the farmers adequate fertilizers at reasonable prices. As used in this act, the term 'farmers' incl. fishpond owners or operators."

Nyasaland. Laws, Statutes, etc. (1960) F
61-08707
Nyasaland Govt Gaz., (57) : 297 of suppl.

Government notice No. 165. Fishing (ring nets) temporary provisions rules, 1960, made under section 20 of the fisheries ordinance (cap. 139).—3 November 1960

Prohibits fishing with ring nets within the specified waters during the months of November and December 1960.

Southern Rhodesia. Laws, Statutes, etc. (1960) F
61-08708
S. Rhodesia Govt Gaz., suppl. (59) : 23 p.

No. 44 of 1960. Fish conservation act, 1960: act to make further and better provision for the conservation of the indigenous fish of the colony and in regard to the introduction of fish into the waters of the colony and the conservation of such fish.

Repeals, partially or entirely, the following: Game and fish preservation act; game and fish preservation amendment act, 1947; general law amendment act, 1956; game and fish preservation amendment act, 1957. The new act deals with fishing reserves, controlled fishing areas, fish conservation areas, angling associations, fish conservation, permits, penalties, etc.

Southern Rhodesia. Laws, Statutes, etc. (1960) F
61-08709
S. Rhodesia Govt Gaz., suppl., (62) : 1 p.

Southern Rhodesia government notice No. 490 of 1960. Proclamation No. 40 of 1960 under the fish conservation act, 1960, act 44/60.—19 December 1960

Ad 61-08708. Fixes entry into force of the said act at 1 Jan. 1961.

F

Spain. Laws, Statutes, etc. (1960)

61-08710

Bol. ofic. Estado Spain, (265) : 15296

Orden de 22 de octubre de 1960 por la que se modifica la base segunda de la de 16 de diciembre de 1953 (Order amending para. 2 of the order of 16 December 1953.—22 October 1960)

In respect of applications for permits to open vivaries for fish culture.

F

Spain. Laws, Statutes, etc. (1960)

61-08711

Bol. ofic. Estado Spain, (291) : 16703

Decreto 2236/1960, de 1 de diciembre, sobre creación del "Gabinete de Aplicaciones Nucleares a las Obras Públicas" en conexión con la Junta de Energía Nuclear (Decree No. 2236/1960, creating the Study Group for Nuclear Applications to Public Works in conjunction with the Nuclear Energy Board.—1 December 1960)

To study, *inter alia*, prevention of nuclear contamination of watercourses.

M

Spain. Laws, Statutes, etc. (1960)

61-08712

Bol. ofic. Estado Spain, (312) : 17840-1

Orden de 13 de diciembre de 1960 por la que se modifican las disposiciones en vigor sobre tiempo de embarque previo para la obtención del título de Patrón de Pesca de Altura (Order amending provisions in force governing time of service required for obtaining the title of deep-sea fishing master.—13 December 1960)

M

Spain. Laws, Statutes, etc. (1960)

61-08713

Bol. ofic. Estado Spain, (312) : 17841-2

Orden de 20 de diciembre de 1960 por la que se determinan las condiciones que han de exigirse para la obtención del título de Capitán de Pesca (Order prescribing required conditions for obtaining the title of fishing captain.—20 December 1960)

M

Spain. Laws, Statutes, etc. (1961)

61-08714

Bol. ofic. Estado Spain, (8) : 386

Orden de 2 de enero de 1961 por la que se dictan normas para la expedición de los títulos de patrones de pesca de altura y de patrones de pesca y arrastre de altura (Order prescribing rules for the grant of certificates of deep-sea fishing master and deep-sea fishing and dragging master.—2 January 1961)

Ad 61-08712.

M

Spain. Laws, Statutes, etc. (1961)

61-08715

Bol. ofic. Estado Spain, (24) : 1309-35

Orden de 16 de enero de 1961 por la que se aprueba la reglamentación nacional de trabajo en la industria de la pesca de arrastre (Order approving national labor regulations for the deep-sea fishing industry.—16 January 1961)

Very detailed regulations covering classification of personnel, definition of professional categories, licences, professional training, retributions, working hours, etc.

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MF
61-08716

Union of South Africa. Laws, Statutes, etc. (1960)
Govt Gaz. S. Afr., (6602) : 15-6

No. 2134. Wet op reëling van uitvoer van bederfbare produkte, 1926. Heffings op bederfbare produkte. 30 Desember 1960 (G.N. No. 2134, on imposition of levies on perishable products, pursuant to section 16 of the perishable products export control act, 1926.—30 December 1960)

Incl. fish, shell-fish and crustaceans.

M
61-08717

South West Africa. Laws, Statutes, etc. (1960)
Off. Gaz. S.W. Afr., (2279) : 1063

No. 206. Sardyne en maasbankers: maksimale hoeveelheid wat verwerk mag word. 15 Oktober 1960 (G.N. No. 206 on pilchards and maasbankers: maximum quantity permitted to be treated.—15 October 1960)

Fixes the maximum quantities that may be yearly treated in any one of 4 factories in the territory of S.W. Africa. Made pursuant to the sealing and fisheries ordinance of 1949, as amended.

M
61-08718

U.A.R. (Syria). Laws, Statutes, etc. (1960)
Rec. Lois Législ. financ. U.A.R., (9) : 40-2

Arrêté portant publication de l'accord de commerce entre la République Arabe Unie et la République de Vietnam.—28 mars 1960 (J.O. No. 182, 14 août 1960, p. 1574) (Order publishing the trade agreement between the United Arab Republic and the Republic of Vietnam.—18 March 1960)

Imports incl. fish, fish oil, etc.

MF
61-08719

U.A.R. (Syria). Laws, Statutes, etc. (1960)
Rec. Lois Législ. financ. U.A.R., (10) : 14-23

Arrêté N° 434 du 11 août 1960 fixant les professions et industries similaires ou connexes sur base desquelles doivent être constituées les syndicats des ouvriers et employés en application de l'article 1960 du code du travail. (Annexe du J.O. N° 35 du 1er septembre 1960, p. 5683) (Order No. 434, prescribing professions and similar or related industries for which workmen's and employees' trade unions must be established in application of article 160 of the labour code.—11 August 1960)

Activities concerned incl. fisheries.

MF
61-08720

U.A.R. (Syria). Laws, Statutes, etc. (1960)
Rec. Lois Législ. financ. U.A.R., (10) : 31-2

Arrêté N° 34 du 11 octobre 1960 fixant la cotisation annuelle de l'assurance contre les accidents de travail des ouvriers pêcheurs, conformément aux dispositions du code des assurances sociales. loi N° 92 du 6 avril 1959. (J.O. N° 243 du 25 octobre 1960, p. 1825) (Order No. 34, fixing the annual premiums payable by fishermen for work accident insurance, pursuant to the provision of the welfare insurance code. Act No. 92 of 6 April 1959.—11 October 1960)

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U.A.R. (Syria). Laws, Statutes, etc. (1960) MF
61-08721
Rec. Lois Législ. financ. U.A.R., (11) : 28-36

Arrêté N° 3285 bis du 23 octobre 1960 portant organisation de l'administration des ports et phares de le République Arabe Unie. (J.O. N° 261, 15 novembre 1960, p. 2031) (Order 3285 bis relative to the organization of the United Arab Republic harbours and lighthouses administration.—23 October 1960)

The administration incl. a fisheries and licences service responsible for the execution of acts, orders and regulations governing fishing.

U.S. Laws, Statutes, etc. (1960) MF
61-08722
Fed. Reg. nat. Arch. U.S., 25 (213) : 10458

Code of federal regulations, title 50: wildlife—chapter 2: Bureau of Commercial Fisheries, Fish and Wildlife Service, Department of the Interior—subchapter F: aid to fisheries—part 255: fishing vessel mortgage insurance procedures; definition of "actual cost" of a vessel.—26 October 1960

Venezuela. Laws, Statutes, etc. (1960) M
61-08723
Gac. ofic. Rep. Venezuela, (26.430) : 196.007

Resolución Num. RNR-372 por la cual se fijan los tipos de patentes que regirán para la temporada de pesca de perlas que se iniciará el 1° de enero de 1961.—7 de diciembre de 1960 (Resolution No. RNR-372, prescribing types of permits required for the pearlfishing season to open 1 January 1961.—7 December 1960)

Venezuela. Laws, Statutes, etc. (1960) M
61-08724
Gac. ofic. Rep. Venezuela, (26.430) : 196.007

Resolución Núm. RNR-373 por la cual se declara abierta la temporada de pesca de perlas.—7 de diciembre de 1960 (Resolution No. RNR-373, declaring the pearl-fishing season open)

1 Jan. 1961–30 Apr. 1961.

Mohsen, T. (1961) F
61-08725
C.R. Acad. Sci., Paris, 252 (21) : 3327–9

Sur la présence d'un organe copulateur interne, très évolué chez *Skiffia lermæ* (Cyprinodonte Goodeidae) (On the presence of a very developed internal copulatory organ in *Skiffia lermæ* (Cyprinodonta Goodeidae))

Description of organ.

FAO. Fisheries Division (1961) MF
61-08726
World Fish. Abstr., 12 (2)

Fr and *Es* versions issued separately. Contains informative abstracts of: 60-6861, 61-00419, 61-02067, 61-02707, 61-04309, 61-06306, 61-07006, 61-07188, 61-08185, 61-08727 to 61-08789, and technological notes under headings: Detection of fish—echo sounding; Fish boxes and containers—non-metallic Fishing methods and gear—materials; Fishing methods and gear—traps; Food packaging materials—plastics, etc.; Meteorology (ocean currents); Seaweeds—chemical composition.

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61-08727
Biokhimiia (*En. Transl.*), 24 (6) : 952-8
 Digestive enzymes of fish and seasonal changes in their activity
En 61-05203. WFA 12 (2) : 3.
- U.K. MAFF** (1960) M
66-08728
Lab. Leaf., Lowestoft, (25) : 3 p.
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51-08729
World Fish., 9 (9) : 24-7
 Operation fishnet
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- Piltz, W.** (1960) M
61-08730
Budown. Okretowe, 5 (7) : 192-5
 Trawler-przetwórnia "B-15" (Factory-trawler B-15)
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- Anon.** (1960) X
61-08731
Pêche marit., 39 (984) : 156-7
 Le conditionnement sous vide des queues de langoustes à bord du langoustier-congélateur 'Françoise-Christine' (Vacuum packing lobster tails aboard the lobster fishing boat-freezer, 'Françoise-Christine')
 WFA 12 (2) : 7.
- Kan, A. & E. Paylov** (1960) X
61-08732
Quick Froz. Fds, 23 (3) : 288-9
 Whale meat freezing, transportation in the U.S.S.R.
 WFA 12 (2) : 9.
- Anon.** (1960) M
61-08733
Pacif. Fisherm., 58 (8) : 8-10
 Research vessel is fitted for underwater observation of fish
 WFA 12 (2) : 9.
- Anon.** (1960) M
61-08734
Trade News, 13 (4) : 13
 Multi-purpose vessel for Atlantic fisheries fleet
 WFA 12 (2) : 9.

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Unusual 33-ft. glass gillnetter building
WFA 12 (2) : 11.
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61-08736
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Pacif. Fisherm., 58 (8) : 25-7
Converted 'Cape Falcon'
WFA 12 (2) : 11.
- M
61-08737
- Anon.** (1960)
Pacif. Fisherm., 28 (9) : 27-8
SOP (Standard operating procedure) as revealed in 'Renown's' conversion
WFA 12 (2) : 11.
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61-08738
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Describes how to make use of the method of estimating the degree of coincidence of 2 or more spp. in samples by comparison of the most probable number, in the given series, of cases in which both spp. concur in the sample, with the actual number of such concurrences.

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Dynamika populacji *Philodina citrina* Ehr. (Rotatoria) w hodowli akwariowej (Population dynamics of *Philodina citrina* Ehr. (Rotatoria) bred in aquaria). En

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- Peräkylä, O.** (1960) F
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Vesitalous, 1 (2) : 6-9
 Vesiensuojelu, tämän hetken ongelmana (Water conservation, a current problem in Finland). En
- Saukko, P.** (1960) F
61-09115
Vesitalous, 1 (2) : 10-1
 Vesilakiesityksen mukaiset kunnalliset vesilautakunnat ja niiden tehtävät (The municipal water committees and their duties, as specified by the bill for the new Finnish law of riparian matters). En
- Law on riparian matters prescribes that a water committee should be established in each community. The committee will have authority to pass upon certain matters and should work in a spirit of arbitration.
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61-09116
Vesitalous, 1 (2) : 23-5
 Talousvetenä käytetyn pohjaveden laatu Suomen maalaiskunnissa (Quality of the ground water drawn for household use in the rural communities in Finland). En
- Results of analyses of samples taken from different households, each one representing a rural population of 1000 persons and consisting of water intended for use as drinking water and for cooking on the day in question.
- USFWS. Bureau of Sport Fisheries & Wildlife** (1959) M
61-09117
 Washington, D.C., 12 p.
 A prospectus for marine game fish research
- Lists important marine game fish with descriptive notes on the importance of research; federal function in research; staff and facilities; and development of the research program.
- Salvagno, B.** (1960) MF
61-09118
G. Pesca, 10 (19) : 5
 Il parassita "argulus" infesta le nostre lagune (The parasite "argulus" infests our lagoons)
- Note on invasion of *Argulus* since 1957 in Laguna Veneta, parasitizing *Anguilla* and *Mugil*.

Koo, T. S. Y. & H. D. Smith (1960)

MF

61-09119

Spec. sci. Rep. U.S. Fish Wildl. Serv., (362) : 10 p.

Main-stem and tributary sampling of red salmon scales for population studies

Compares freshwater age composition of *Oncorhynchus nerka* by scale studies and discusses whether or not spawning ground sampling can represent the entire escapement.

Thurrow, F. (1960)

MF

61-09120

Fischerblatt, 8 (11) : 226-9

Quantitative Fischerei in der westlichen Ostsee Ende Oktober 1960 (Quantitative fishery in the western Baltic Sea end of October 1960)

Reviews the results of experimental fishery for collections of data on fish stock distribution and size.

Anon. (1960)

M

61-09121

Fischerblatt, 8 (11) : 229-32

Färbungsversuche an Nordseegarnelen zur Markierung (Experiments of coloring the North Sea shrimp for tagging purpose)

Summary of results on laboratory experiment for coloring of shrimps.

Hurme, S. (1960)

F

61-09122

Suom. Kalastusl., 67 (6) : 208-12

Maamme suuret järvet kalavesinä (The large lakes of our country as fishery waters)

Discussion on the problems of improving the fishery yields of large lakes in Finland.

Lindroth, A. (1960)

MF

61-09123

Svensk Fisk. Tidskr., 69 (11) : 145-7

Beräkning av tillväxten hos lax genom fjälläsning (Computation of growth of salmon from measurements of scales)

Description of the method with formulas.

Hagelin, L.-O. (1960)

MF

61-09124

Svensk Fisk. Tidskr., 69 (11) : 147-52

Något om flodnejonögats livscykel och lekbeteende (On the life cycle and spawning behaviour of lamprey)

General description of the life cycle of *Petromyzon fluviatilis* and observations in aquarium on spawning behaviour.

- Sjöblom, V.** (1960) M
61-09125
FiskTidskr. Finl., (2) : 44-55
 Om vår- och höstlekande strömming (On our spring- and autumn-spawning herring)
 Review of herring races in the Baltic, size variations of different stocks and variations in spawning times.
- Paine, R. D., Jr.** (1960) M
61-09126
Rel. U.S. nat. Sci. Fnd., Dec. 7 : 5 p.
 Discovery of fish remains may support 50-year-old Antarctic ice shelf theory
 Announcement and discussion of discovery in Feb.-Apr. 1960 of partially decomposed remains of fish and marine invertebrates on surface of ice shelf near McMurdo Sound, Antarctica by University of Michigan party led by C. W. M. Swithinbank. Map.
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 Growth of bluefin tuna of the western North Atlantic
- Cooper, L. H. N.** (1961) M
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 The oceanography of the Celtic Sea—1. Wind drift
 A comprehensive review.
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J. Mar. biol. Ass. U.K., 41 (2) : 235-70
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 Co 61-09128.
- Nicol, J. A. C.** (1961) M
61-09130
J. Mar. biol. Ass. U.K., 41 (2) : 271-7
 The tapetum in *Scyliorhinus canicula*
 Histological study of choroidal tapetum in eye of light- and dark-adapted specimens.
- Boalch, G. T.** (1961) M
61-09131
J. Mar. biol. Ass. U.K., 41 (2) : 279-86
 Studies on *Ectocarpus* in culture—1. Introduction and methods of obtaining uni-algal and bacteria-free cultures
 Details given of culture apparatus and methods found successful. A modification of plating technique. Washing, dilution, ultra-violet irradiation were unsuccessful in giving bacteria-free cultures, but treatment with penicillin gave bacteria-free cultures.

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61-09132
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J. Mar. biol. Ass. U.K., 41 (2) : 287-304
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 Co 61-09131.
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61-09133
- Fraser, J. H.** (1961)
J. Mar. biol. Ass. U.K., 41 (2) : 305-12
 The survival of larval fish in the northern North Sea according to the quality of the sea water
 Numbers of eggs and planktonic stages of fish taken during a five-year period by the Scottish research vessels associated with presence of *Sagitta elegans* and *S. setosa*, and over an 11-year period with the presence or absence of *S. elegans*.
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- Comfort, A.** (1961)
J. Mar. biol. Ass. U.K., 41 (2) : 313-8
 On the pigment of *Ianthina janthina* L.
 Spectral absorption of violet pigment extracted from dried secretion by acetone is described. Not identical with bilidienne-proteins pigments of *Aplysia*, or with other violet molluscan pigments.
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- Denton, E. J. & J. B. Gilpin-Brown** (1961)
J. Mar. biol. Ass. U.K., 41 (2) : 319-42
 The buoyancy of the cuttlefish, *Sepia officinalis* (L.)
 Detailed study of density and structure of cuttlebone.
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61-09137
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J. Mar. biol. Ass. U.K., 41 (2) : 351-64
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61-09138
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 The reproduction and maintenance of *Polydora ciliata* (Johnst.) at Whitstable

Morphology, periods of breeding, settlement and growth; fecundity.

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61-09140
- Holme, N. A.** (1961)
J. Mar. biol. Ass. U.K., 41 (2) : 397-461
 The bottom fauna of the English Channel

Anchor-dredge survey collections—especially molluscs and echinoderms—described for whole length of southern coast of England. Distribution and zonation. Fauna and station lists. Appendix note on identity of specimens of *Spisula* used by D. Atkins (1937) in work on ciliary mechanisms.

- M
61-09141
- Marshall, S. M. & A. P. Orr** (1961)
J. Mar. biol. Ass. U.K., 41 (2) : 463-83
 Studies on the biology of *Calanus finmarchicus*—12. The phosphorus cycle: excretion, egg production, autolysis

Equilibrium of ^{32}P throughout the body of *Calanus* is reached only after a feeding period of about a week. The time required to liberate by excretion the amount of P present in a *Calanus* is about 20 days. Fed *Calanus* excrete at a higher rate than starved. The implications of excretion in feeding experiments using ^{32}P are discussed. Relation of excretion and autolysis to P cycle in sea is discussed.

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61-09142
- Conover, R. J.** (1961)
J. Mar. biol. Ass. U.K., 41 (2) : 484-8
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Ad 61-09141. Mathematical analysis.

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- Ansell, A. D.** (1961)
J. Mar. biol. Ass. U.K., 41 (2) : 489-515
 The functional morphology of the British species of Veneracea (Eulamellibranchia)

Comparative morphology of 12 spp. described. Systematic position of *Mysia undata* and evolution within the Veneracea are discussed.

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61-09144
- Manton, I. & G. F. Leedale** (1961)
J. Mar. biol. Ass. U.K., 41 (2) : 519-26

Further observations on the fine structure of *Chrysochromulina minor* and *C. kappa* with special reference to the pyrenoids

Ci 61-03871. Re-investigated by means of electron microscopy of thin sections to add details of the microanatomy of pyrenoids and haptonemata, and by anoptral contrast light microscopy to study pyrenoids in living cells.

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61-09145
- Lebour, M. V.** (1959)*
Atlantide Rep., 5 : 119-43
The larval decapod Crustacea of tropical West Africa
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61-09146
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J. Embryol. exp. Morph., 8 : 268-90
The sexual development of *Salpa fusiformis* (Cuvier)—Part 1.
IABS 21 (3) 5739.
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61-09147
- Moore, W. H.** (1960)
Brit. Commun. Electron., 7 (1) : 20-3
Electronics and freshwater biology
IA 15 (2) 373. Some of the electrical and electronic equipment used in the laboratory of the Freshwater Biological Association is described under the headings: temperature measurements; measurement of sub-aqueous light penetration; conductivity measurements; applications to hydrology; electric fish shockers; and use of radioactivity instruments and echo sounders.
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61-09148
- Flory, L. E.** (1959)
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Scanning microscopy in medicine and biology
IA 15 (2) 384.
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Rev. sci. Instrum., 30 (12) : 1125-6
Underwater camera positioning by sonar
IA 15 (3) 1015. A pulse transducer sends 12 kc/s sound pulses upwards and downwards.
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61-09150
- Peterson, H. L. & W. J. Finney** (1960)
Automat. Control, 12 (1) : 48, 50, 52
Selection and analysis of recorded acoustic data from the sea
IA 15 (4) 1188. Systems of data handling employed at the US Naval Research Laboratory.
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61-09151
- Anon.** (1960)
Engineer, Lond., 209 (5430) : 307
Battery-operated depthmeter
IA 15 (4) 1439. Transistorized depthmeter manufactured by Brookes & Gatehouse Ltd., U.K. The accuracy of the instrument is $\pm 5\%$ or 6 in, whichever is the greater.

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61-09152
Brit. Commun. Electron., 7 (4) : 243
 Shallow clearance echo-sounding
 IA 15 (5) 1976.
- Sandouer, J. A. & C. Taylor** (1960) MF
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J. sci. Instrum., 37 (4) : 141-3
 Determination of the profiles of water waves
 IA 15 (6) 2310. Construction and calibration of a capacitance depth gauge for accurate recording of three-dimensional water waves described.
- Tucker, D. G.** (1960) M
61-09154
J. Brit. Instn Radio Engrs, 20 (4) : 299-308
 Some new possibilities in civil underwater echo-ranging
 IA 15 (7) 3090. Discusses projects currently in hand, leading to substantial improvements in echo-ranging techniques for fisheries operation and research, navigation, surveying and general oceanographical work.
- Williams, G. Z.** (1959) G
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Trans. Instn Radio Engrs, ME-6 (2) : 68-74
 Time lapse ultraviolet television-microscopy instrumentation and biological applications
 IA 15 (8) 3233.
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Electron. Engng, 32 (388) : 336-40
 A miniature transistorized echo-sounder
 IA 15 (8) 3714. Describes a very small, robust echo-sounder for use in depths from 2.5 ft to 32 fathoms.
- Schaefer, J. V.** (1960) M
61-09157
Electronics, 33 (28) : 60-2
 Remote preamplifiers for under ocean work
 IA 15 (9) 4070. Measurements of sea noise at sea state zero—the quietest condition—can be made with signal/noise ratios of 15 dB or more in the a.f. range, using cables and bottom-mounted hydrophones. The preamplifiers used with the hydrophones are described.
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Electron. Design, 8 (13-14) : 40-51, 34-43
 Oceanography—high tide for design ideas
 IA 15 (9) 4122. Electronic instrumentation requirements in oceanography are reviewed, with particular reference to American equipment.

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Electronics, 33 (15) : 62-3
 Instrumentation for exploring the ocean
 IA 15 (9) 4124. An underwater camera system is described.
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Instrum. Constr., (9) : 1-5
 Electro-mechanical calculating machine "Integral 1" for the integration of ordinary differential equations
 IA 15 (10) 4514.
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Proc. int. Conf. med. Electron., 2 (1959) : 497-9
 Recording biological data on tape: a simple method using two transistors
 IA 15 (12) 5565.
- Andrews, J. M.** (1960) G
61-09163
Instrum. Control. Syst., 33 (9) : 1540-4
 The dynamic storage analog computer—DYSTAC
 IA 15 (12) 5677.
- Hilton, A. M.** (1960) G
61-09164
Electro-Tech., 66 (4) : 163-85
 Digital computing machines
 IA 15 (12) 5681.
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Dock Harb. Author., 41 (479) : 164-7
 A mean sea level investigation
 IA 15 (12) 5849.
- Thurow, F.** (1960) MF
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Ber. dtsch. Komm. Meeresforsch., 16 (1) : 1-10
 Untersuchungen über Bestandsfluktuationen beim Ostseelachs (Investigations into stock fluctuations of Baltic Sea salmon). En
 Reports on stock compositions as to length, weight and age, and relates migration phenomena to age of fish.

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 Über hydrographische Untersuchungen in der Nordsee in Juni-Juli 1959
 (On hydrographic investigations in the North Sea during June-July 1959).
 En
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 Zum Rassenproblem beim Rotbarsch—Rotbarschformen aus dem zentralen Nordatlantik (zwischen den Färöern und Grönland-West) (The racial problem of redfish—Redfish forms from the central North Atlantic, between Faroe Islands and West Greenland). En
- Reviews knowledge on different types and reports on new investigations with regard to the taxonomic status of redfish.
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- BAgr. 25 (2) 9730.
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 Hydrobiologische Untersuchungen an Kleingewässern des Naturschutzgebietes Strausberg bei Berlin mit besonderer Berücksichtigung der Kieselalgen (Hydrobiological investigations of small water bodies in the Strausberg national preserved park near Berlin with special reference to diatoms)
- BAgr., 25 (2) 9731.
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BAgr., 25 (3) 17402.

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Phytomorphology, 10 (3) : 234-8

Willeella ordinata Börgesen from Cape Comorin, South India

BAgr., 25 (3) 17410.

Mullahy, J. H. (1959)

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Proc. La Acad. Sci., 22 : 62-8

Preliminary survey of the algal flora of the Chantelour Islands

BAgr., 25 (3) 17412.

Perez Reyes, R. & E. Salas Gomez (1960)

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BAgr., 25 (3) 17413.

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Amer. Midl. Nat., 64 (2) : 362-81

Observations on the offshore benthic flora in the Gulf of Mexico off Pinellas County, Florida

BAgr., 25 (3) 17414.

Voigt, M. (1960)

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Bull. Inst. roy. Sci. nat. Belg., 36B (2) : 1-7

Note sur quelques diatomées du genre *Auricula* (Note on some diatoms of genus *Auricula*)

BAgr., 25 (3) : 17419.

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Z. Tierpsychol., 16 : 410-23
 (Comparative behaviour studies in bottom-living fish—3. Changes in specialization in *Noemacheilus kuiperi*). *De*
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- F
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Z. Bot., 48 : 251-7

(Germination physiology of *Chondrus crispus*). *De*

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(Action of desiccation and temperature on hatching of eggs of *Lepidurus apus* (Leach) (Crustacea, Phyllopoda))

IABS 21 (3) 5732.

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Bull. Soc. zool. Fr., 84 : 105-15

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Bull. Soc. zool. Fr., 84 : 132-5

(Coloration of digestive tube of certain chaetognaths). *Fr*

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IABS 21 (3) 5773.

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 IABS 21 (3) 5812. In weak currents the nudibranchs, *Aeolidia papillosa* and *Trinchesia aurantia* moved with the current but as this became stronger they reversed to face the current; in still water is carried out by a gradient in scent.
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Electrical responses of the eyes of *Aedes aegypti* L. larvae stimulated by visible light and the effect of insecticides on their nerve action potentials.

DA 21 (10) : 3206.

McManus, L. R. (1960)

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61-09203

Thesis, Cornell Univ., U.S., 145 p.

Studies of the crayfish *Cambarus robustus* Girard

DA 21 (10) : 3207. Refers observations made in the region of Ithaca, on spawning, sexual maturity, molts, growth, food, borrowing activities and time of activities. Association with *Cambarus b. bartoni* and *Orconectes p. propinquus* is discussed. Occurrence of the commensal branchiobdellids, *Cambarincola philadelphica*, an undescribed sp., *Cambarincola* sp. A, and *Xironogiton i. instabilis* is also considered.

Petrovski, N. N. (1960)

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61-09204

Izd. Zav. Rib. Maked., 3 (1) : 1-31

Nastupavanje na polova zrelost i plodnost na dojranskata perkija (The advent of sexual maturity and fertility in Dojran perch). En Ru

Shows the results of an investigation into the fertility and the age at which sexual maturity first occurs in perch, *Perca fluviatilis macedonica* Karaman, in Lake Dojran, one of the most fertile waters of Europe.

Zavodnik, D. (1960)

M
61-09205

Acta adriat., 9 (2) : 1-19

Echinodermata der Insel Krk (Echinoderms of the Isle of Krk)

Notes on ecology and morphology of 26 spp. of echinoderms, obtained at the diving on the 57 stations along the coasts of this northern Adriatic isle.

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61-09206
- Eberl-Rothe, G.** (1960)
Thalassia jugosl., 2 (1) : 5-32
Über das Zwischengewebe der wirbellosen Tiere—I. Spongien (On the intermediate tissues of nonvertebrate animals—I. Sponges).
The comparative histological problems of Calcispongiae, Tetraxonidae, Cornacuspongiae and Dendroceratidae are treated.
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61-09207
- Karaman, S. L.** (1958)
Biol. Glasnik, 11 (1-4) : 11-22
Weitere Beiträge zur Kenntnis der Amphipoden und Isopoden Jugoslawiens und Griechenlands (Further contributions to the knowledge of Amphipoda and Isopoda of Yugoslavia and Greece)
Notes on systematics and morphology of some spp. of the genera *Niphargus*, *Rivulogammarus* and *Microcharon*; one sp. is newly described, *N. buturovici* n. sp.
- F
61-09208
- Petkovski, T. K.** (1958)
Biol. Glasnik, 11 (1-4) : 27-34
Zwei neue Ostracoden aus dem Dojransee (Two new ostracods from the Dojran Lake)
Candona paionica n. sp. and *C. unguata* G. W. Müller f. *merionalis* n. f. are described.
- M
61-09209
- Gamulin-Brida, H.** (1960)
Biol. Glasnik, 13 (1) : 21-42
Primjena Sørensenove metode pri istraživanju bentoskih populacija (Application of Sørensen's method at the research on benthos populations)
The phytosociological method of Sørensen—QS, quotient of similarity—was applied to the study of bottom fauna on seven stations in the middle Adriatic.
- F
61-09210
- Oceviski, B.** (1960)
Folia balc., 2 (2) : 1-18
Mikrobiološki istraživanje na Dojranskoto ezero (Microbiological survey of Lake Dojran)
Results of the first researches of the bacteriological population of lake Dojran are given.
- F
61-09211
- Petkovski, T. K.** (1960)
Fragm. balc., 3 (8) : 65-75
Contribution à l'étude de la faune d'Afghanistan 33: harpacticides (Crustacea, Copepoda) (Contribution to the knowledge of the fauna of Afghanistan 33: harpacticids)
6 spp. of these copepods are treated, two of them new for science—*Bryocamptus borutzkyi* n. sp. and *Attheyella orientalis afghanica* n. sp.

Petkovski, T. K. (1960)F
61-09212*Fragm. balc.*, 3 (12) : 99-106

Süsswasserostracoden aus Jugoslawien—7. (Freshwater ostracods from Yugoslavia—7.)

The distribution of *Dolerocypris sinensis* is discussed but *Candona holmesi* n. sp. is newly described sp. from lake Ohrid.**Petkovski, T. K.** (1959)F
61-09213*Acta Mus. maced. Sci. nat.*, 6 (3) : 53-75

Süsswasserostracoden aus Jugoslawien—6. (Freshwater ostracods from Yugoslavia—6.)

Systematic notes on 9 spp. and sub-spp.; five of them are new for science.

Matoničkin, I. & Z. Pavletić (1959)F
61-09214*Acta Mus. maced. Sci. nat.*, 6 (4) : 77-99

Životne zajednice na sedrenim slapovima rijeke Une i u brzicama pritoke Unda (Biocenosis on the travertine cataracts in the river Una and in the rapids of the affluent Unac)

The results of the ecological-biocenotic researches are given. The biocenotic relations have been investigated, predominantly for winter and summer periods of the year, on four different waterfalls of the Una as well as on a habitat of its right affluent Unac, central Yugoslavia.

Petkovski, T. K. (1959)F
61-09215*Acta Mus. maced. Sci. nat.*, 6 (5) : 101-19

Neue und bemerkenswerte harpacticoida Ruderfusskrebse (Crust. Cop.) aus den Grundgewässern Jugoslawiens (New and important harpacticoids from subsoil waters of Yugoslavia)

Morphologic study of 6 spp. of these copepods, three of them are new for science.

Karaman, S. & G. Karaman (1959)F
61-09216*Acta Mus. maced. Sci. nat.*, 6 (7) : 143-62

Beitrag zur Kenntnis der Niphargiden Bulgariens (Contribution to the knowledge of Niphargidae from Bulgaria)

From 5 sp. and sub-spp. studied, four are newly described, as well as new subgenus *Carpathoniphargus*.**Marinković-Roje, M.** (1959)M
61-09217*Hidrogr. God.*, 1958 : 103-24

Oceanographic researches in the areas of Rovinj and Limski Kanal

The data on transparency, temperature, salinity and density of sea water are given for three stations in the northern Adriatic, for the years 1957-59.

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61-09218
- Zorè, M.** (1960)
Hidrogr. God., 1959 : 59-66
Promjene razine mora uzduž nase obale u vezi sa sistemom strujanja u Jadranu (Variations of the sea level along the eastern Adriatic coast and the system of gradient currents in the Adriatic)
- The relationship is found between the variations of the sea levels and variations of the geopotential topographies along the eastern Adriatic coast in different seasons of the years.
- M
61-09219
- Alfirević, S.** (1960)
Hidrogr. God., 1959 : 67-104
Rezultati morfoloških i geoloških istraživanja marinskih sedimenta u kanalima zadarskog arhipelaga (Results of the morphological and geological researches of marine sediments in the channels of Archipelago of Zadar)
- The influence of geomorphological, hydrophysical and biological factors on the granulometric selection of sediments was surveyed.
- M
61-09220
- Nikolić, M.** (1960)
Hidrogr. God., 1959 : 129-50
Ronjenje kao metoda istraživanja mora (Diving as the method of sea research)
- The short history and the experiences of the diving are given, as well as the possibilities of their application at the researches in the sea.
- F
61-09221
- Matjašič, J.** (1958)
Biol. Vestn., 6 : 60-5
Vorläufige Mitteilungen über europäische Temnocephalen (Previous observations on Temnocephala of Europe)
- On some spp. of troglodyte crustaceans from Yugoslavian Carso, the author has found 12 spp. of Temnocephala; 11 of them are new for science and belonging to 4 new genera: *STYGODYTICOLA*, *BUBALOCERUS*, *SUBTELSONIA* and *TROGLOCARIDICOLA*.
- F
61-09222
- Sket, B.** (1958)
Biol. Vestn., 6 : 66-75
Prispevek k poznavanju naših amfipodov (Contribution to the knowledge of our amphipods)
- Notes on systematics and ecology of 9 spp. of *Niphargus* with the description of one sp. new to science, *N. rejici* n. sp.

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61-09223
- Lazar, J.** (1960)
Biol. Vestn., 7 : 17-28
 Prispevek k flori alg Slovenija—4. (Contribution to the knowledge of algae of Slovenia—4.)

List of 146 spp. of algae described from various find-spots in Slovenia, northern Yugoslavia.

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61-09224
- Rakovec, R.** (1960)
Biol. Vestn., 7 : 39-54
 Prispevki k poznavanju vrste *Parazoanthus axinellae* Schmidt (Zoantharia) (Contributions to the knowledge of *Parazoanthus axinellae*)

The ontogenetic development, growth and ecology of this sp. are discussed.

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61-09225
- Rejic, M.** (1960)
Biol. Vestn., 7 : 65-74
 Prispevek k poznavanju faune Slovenija—1 & 2. (Crustacea, Copepoda) (Contribution to the knowledge of fauna of Slovenia—1 & 2.)

List of the Slovenian fresh-water copepods belonging to the families Diaptomidae, Temoridae and Cyclopidae, with find-spots for each sp. separately.

- M
61-09226
- Zavodnik, D.** (1960)
Biol. Vestn., 7 : 81-4
 O kopepodu *Cancerilla tubulata* Dal., ektoparazitu na kacjerepu *Amphipholis squamata* (D. Ch.) (On the copepod *Cancerilla tubulata*, ectoparasite on ophiuroid *Amphipholis squamata*)

Note on systematics, morphology and ecology of the females of *Cancerilla tubulata*.

- M
61-09227
- Zavodnik, D.** (1961)
Biol. Vestn., 8 : 49-55
 Seznam jadranskih ehinodermov in njihova globinska razširjenost (List of Adriatic echinoderms and their bathymetrical distribution)

To the time being 80 spp. of echinoderms are reported from Adriatic, but the presence of some spp. is uncertain. The bathymetrical distribution of all Adriatic echinoderms is discussed.

- M
61-09228
- Golubić, S.** (1960)
Thalassia jugosl., 2 (2) : 5-36
 Vegetacija cijanofita u lukama sjevernog Jadrana (Vegetation of Cyanophyta in the harbours of the northern Adriatic)

Notes on ecology, morphology and geographical distribution of 42 spp. of Diatomeae and 41 spp. of Cyanophyta, one of them new for science.

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61-09229
Rep. Nankai Fish. Res. Lab., (13) : 1-19
 (Oceanographical studies on the fishing grounds of tunas in the Indian Ocean—2. General oceanographic conditions in relevant to the distribution of tunas in summer season). *Ni En*

Co 60-9142. Oceanographical data from about 800 stations collected 1953-59.

- Suda, A. & Y. Warashina** (1961) M
61-09230
Rep. Nankai Fish. Res. Lab., (13) : 21-34
 (Studies on the albacore—6. Some considerations on the condition factor of albacore in the north west Pacific, especially on the differences between albacore caught by the long-line and pole and line methods). *Ni En*

Three hypotheses to explain differences between fish of the same age but caught by different methods.

- Kikawa, S.** (1961) M
61-09231
Rep. Nankai Fish. Res. Lab., (13) : 35-46
 (The group maturity of bigeye tuna *Parathunnus mebachi* (Kishinouye) in the spawning areas of the Pacific). *Ni En*

Evaluation using gonad index frequencies based on data collected 1951-60; comparison of length-frequency distribution of spawning and non-spawning populations; group maturity according to area.

- Shimidu, Y. & S. Higasa** (1961) M
61-09232
Rep. Nankai Fish. Res. Lab., (13) : 47-51
 (Biochemical studies on the growth and maturation of fish—13. Some notes on riboflavins in the bile of tunas and marlins). *Ni En*

Co 60-9147.

- Suzuki, A.** (1961) M
61-09233
Rep. Nankai Fish. Res. Lab., (13) : 53-67
 (Serological studies of the races of tuna—5. The blood groups of yellowfin tuna). *Ni En*

Studies on *Neothunnus macropterus* (Temminck & Schlegel).

- Ichiye, T.** (1960) M
61-09234
J. oceanogr. Soc. Japan, 16 (3) : 111-6
 A note on ocean currents produced by sources and sinks

Ichiiye, T. & G. B. Dowling (1960)

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61-09235

J. oceanogr. Soc. Japan, 16 (3) : 117-27

A note on the seiches of Alligator Harbor, Florida

Analysis of tidal records to determine the frequency of occurrence of seiches and their amplitudes and energy distributions. Several methods of computing periods of seiches are discussed, and relations between seiches and meteorological conditions.

Konaga, S. (1960)

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61-09236

J. oceanogr. Soc. Japan, 16 (3) : 128-33

(The water temperature at the sea surface—3. An influence of the weather condition(1)). *Ni En*

Discussion of variations in water temperature and chlorinity in relation to evaporation and precipitation.

Imai, Y. (1960)

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61-09237

J. oceanogr. Soc. Japan, 16 (3) : 134-8

(Oceanographical studies on the behaviour of chemical elements—1. On iron and manganese in the sediments around "shiome" (current rips) in the Urado Bay). *Ni En*

Tabulation of experimental results.

Saijo, Y. & S. Ishimura (1960)

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61-09238

J. oceanogr. Soc. Japan, 16 (3) : 139-45

Primary production in the northwestern Pacific Ocean

Measurements made during cruises in Aug. 1957 and in May, Jul.-Aug. 1958, of the standing crop of phytoplankton on the basis of chlorophyll content, and photosynthetic rate determined by the C_{14} method.

Asaoka, O. & M. Ohwada (1960)

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J. oceanogr. Soc. Japan, 16 (3) : 146-9

(On the influence of the plankton organisms and other factors upon the filtering efficiency of the plankton net). *Ni En*

Tabulation of results of comparative experiments.

Choe, S. & Y. Ohshima (1961)

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Bull. Jap. Soc. sci. Fish., 27 (2) : 97-106

(On the morphological and ecological differences between two commercial forms, "green" and "red", of the Japanese common sea cucumber, *Stichopus japonicus* Selenka). *Ni En*

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Bull. Jap. Soc. sci. Fish., 27 (2) : 107-12
 (Identification of the larva of *Pinna strina japonica* (Reeve)). *Ni En*
 Description and identification, comparison with *Atrina pectinata japonica*.
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Bull. Jap. Soc. sci. Fish., 27 (2) : 113-8
 (On the pharyngeal bones and their teeth in Japanese acheilognathid fishes (Cyprinidae)). *Ni En*
 Characteristics of the bones and teeth in 2 genera and 7 spp.
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61-09243
- Nakagome, J.** (1961)
Bull. Jap. Soc. sci. Fish., 27 (2) : 119-23
 (Comparison of depth of longline hook between calculated and surveyed).
Ni En
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61-09244
- Kawakami, T.** (1961)
Bull. Jap. Soc. sci. Fish., 27 (2) : 124-7
 On the law of mechanical similarity for drift gill net
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61-09245
- Yamamoto, T.** (1961)
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 (Tagging experiments of the king crab in the west coast areas of Kamchatka with special reference to its migratory movements). *Ni En*
 Tagging experiments on *Paralithodes camtschatica* Tibelius and analysis of recapture data.
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61-09246
- Yamamoto, T.** (1961)
Bull. Jap. Soc. sci. Fish., 27 (2) : 137-42
 (On the mechanism of fishing in which distribution curve of catch per unit effort is very like logarithmic distribution). *Ni En*
 Formulation of equations and study of values obtained by their use.
- MF
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- Enomoto, N., T. Nagao & Y. Tomiyasu** (1961)
Bull. Jap. Soc. sci. Fish., 27 (2) : 143-6
 (Studies on the external mucous substance of fishes—3. Identification of amino acids in the mucous protein from some fishes by paper chromatography).
Ni En
 Co 61-01886. Studies on 2 freshwater and 9 marine spp.

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 (Studies on muscle of aquatic animals—29. Extractability of fish myosin. Part 1. Composition of myosins extracted under various conditions). *Ni En*
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Bull. Jap. Soc. sci. Fish., 27 (2) : 158-61
 (Studies on the browning of fish flesh—6. Changes of some glycolytic intermediates by heat). *Ni En*
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Bull. Jap. Soc. sci. Fish., 27 (2) : 162-5
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 Co 60-0586.
- Koizumi, C.** (1961) X
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Bull. Jap. Soc. sci. Fish., 27 (2) : 166-70
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- Fukushima, K. & I. Okada** (1961) X
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 (Polarographic studies on the molluscan meat—4.). *Ni En*
- Satomi, Y.** (1960) F
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Bull. Freshw. Fish. Res. Lab., Tokyo, 10 (2) : 1-10
 (Studies on the method of fertilizing argillotroph artificial pond). *Ni De*
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 (Study on the combined propagation with *Daphnia carinata* King and *Moina macrocopa* Straus). *Ni En*
 Experiments to determine influence of abundance of phytoplankton, temperature, transparency, pH, and colour of water on reproduction in *Daphnia*.
- Kodama, Y.** (1960) F
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Bull. Freshw. Fish. Res. Lab., Tokyo, 10 (2) : 23-40
 (Studies on the specific growth of freshwater fishes referring to the weight increase of individual and population—3. Growth of the pond-reared ayu-fish, *Plecoglossus altivelis* T. & S., with special reference to the significance of their social behaviour in eliminating the possible growth-improving effect of feeding by many food-balls). *Ni*
 Co 60-8804.

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Bull. Freshw. Fish. Res. Lab., Tokyo, 10 (2) : 41-52
 (On the dietary disease of rainbow trout (*Salmo irideus* Gibbons) caused by feeding of dried silk-worm pupae—1. On the relationship between the disease and growth). Ni En

Tabulation of experimental results.

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61-09257
Bull. Freshw. Fish. Res. Lab., Tokyo, 10 (2) : 53-64
 (Study on pond-culture of *Tilapia mossambica* which have wintered in spring-water pond—1. On growth in summer referring to that by fish wintered in warmer water and the size of fish seed needed to grow to marketable size in the autumn). Ni En

Comparison of growth rate of fishes kept in spring-water ponds and in warmer water during winter, estimation of amount of summer growth needed to bring fish to marketable size.

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 Studies on the Cirripedia Acrothoracica—2. Internal anatomy of the female of *Berndtia purpurea* Utinomi

General scheme of internal anatomy, glands of unknown nature, nervous system, and sense organs, muscular, excretory, reproductive, circulatory, and respiratory systems.

- Habe, T.** (1960) M
61-09259
Publ. Seto. Mar. biol. Lab., 8 (2) : 281-8
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Descriptions of 11 new spp. collected Sep. 1958.

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 New species of molluscs from the Amakusa Marine Biological Laboratory, Reihoku-cho Amakusa, Kumamoto Pref., Japan

Descriptions of 16 new spp.

- Baba, K.** (1960) M
61-09261
Publ. Seto. Mar. biol. Lab., 8 (2) : 299-302
 Two new species of the genus *Eubranchus* from Japan (Nudibranchia-Eolidacea)

Description of *E. horii* Baba and *E. misakiensis* Baba.

- Baba, K.** (1960) M
61-09262
Publ. Seto. Mar. biol. Lab., 8 (2) : 303-5
 The genus *Hervilla* and a new species, *H. affinis*, from Japan (Nudibranchia-Eolidacea)

Ill. description.

- Hamatani, I.** (1960) M
61-09263
Publ. Seto. Mar. biol. Lab., 8 (2) : 307-15
 Notes on veligers of Japanese opisthobranchs—2. Ill. description of *Halgerda rubicunda* Baba, *Catriona ornata* (Baba) and *C. pinnifera* (Baba)

Co 61-01607.

- Nishibori, K.** (1960) M
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Publ. Seto. Mar. biol. Lab., 8 (2) : 317-26
 Studies on the pigments of marine animals—8. Carotenoids of some shell-fishes

Co 60-6411. Examination and isolation of carotenoid pigments in *Anadara broughtoni*, *A. subcrenata* and *Pecten yessoensis*.

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Co 61-09264. Isolation and identification of pigments of purple secretion and of orange-coloured ova.

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Systematic description, local distribution.

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61-09267
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Publ. Seto. Mar. biol. Lab., 8 (2) : 445-50
 On the occurrence of *Archidistoma aggregatum* (a colony-forming ascidian) in the Pacific waters
 Identification and description of colony and zooid, distribution of local spp., comparison with Atlantic and Pacific forms, description of a zooid with super-numerary heart.
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61-09269
Publ. Seto. Mar. biol. Lab., 8 (2): 451-3
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 Marine algae epiphytic on Laminariales plants
 List of generic names of hosts and epiphytes, and citation of references relating to the epiphytes.
- Kobayashi, K.** (1960) M
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Bull. Fac. Fish. Hokkaido, 11 (3) : 106-18
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 Ill. descriptions, data on temperature, salinity, and submarine illumination at collecting stations, and some frequency distribution tables.
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Bull. Fac. Fish. Hokkaido, 11 (3) : 119-25
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 Ill. description of bag nets and factors important in their successful operation.
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Bull. Fac. Fish. Hokkaido, 11 (3) : 126-31
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Bull. Fac. Fish. Hokkaido, 11 (3) : 132-61
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 Ill. description.

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(Improvement in efficiency of icing of the catch in a fishing boat—1. The bacterial contamination in a fish hold and the sterilizing effect of a germicidal amp). Ni En
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Mem. Fac. Fish. Kagoshima Univ., 9 : 22-9
(Studies on B-vitamins of pyloric coeca of skipjack (*Katsuwonus vagans*—3. On vitamin B₆). Ni En
Study by bioassay, using *L. casei* and *S. faecalis* for determination of pyridoxal and pyridoxamine.
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Study of photographs taken with 35 mm and 8 mm cine cameras.
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Mixing stages of water masses in the western equatorial Pacific
Analysis and plotting of temperature-salinity curves from 370 stations in relation to the mixing of water masses.
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(Fishing-ground constitutional studies on the white marlin, *Marlina marlina* (Jordan & Hill), over the east China Sea—2. On the characteristics of marine environments of the white marlin on the fishing-grounds). Ni En
Co 61-01910. Seasonal hydrographical conditions of white marlin and mackerel fishing grounds.

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61-09289

Mem. Fac. Fish. Kagoshima Univ., 9 : 54-60

(Studies on the relation between the fluctuation in catch and the environmental factors of the principal fishes in Kagoshima Bay—4. On the young horse-mackerel, *Trachurus japonicus*). *Ni En*

Seasonal variation in catch, monthly plotting of fork-length of catch, seasonal variation in hydrographical conditions, and apparent influence of this on migration of fish.

X

61-09290

Narasako, Y. (1960)

Mem. Fac. Fish. Kagoshima Univ., 9 : 61-70

(On the structure and performance of a newly-set rolling test tank). *Ni En*

Ill. description of a test tank to be used in a hydraulic study on ship-rolling, and example of results obtained.

X

61-09291

Kanamori, M. (1960)

Mem. Fac. Fish. Kagoshima Univ., 9 : 71-8

(Further report on the physical analysis of the fixed-fishing-net resistance). *Ni En*

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Wada, S. K. (1960)

Mem. Fac. Fish. Kagoshima Univ., 9 : 79-83

Occurrence of maxima pearl oyster in the Oshima Strait, Amami-Oshima; a northern limit of the distribution

Ill. description of *Pinctada maxima* (Jameson) found in Oshima Strait.

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61-09293

Saisho, T. & K. Nakahara (1960)

Mem. Fac. Fish. Kagoshima Univ., 9 : 84-90

On the early development of phyllosomas of *Ibacus ciliatus* (von Siebold) and *Panulirus longipes* (A. Milne Edwards)

Tabulation of ecdyses, measurements, main developmental changes of the larvae.

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Tanaka, T. (1960)

Mem. Fac. Fish. Kagoshima Univ., 9 : 91-105

Studies on some marine algae from southern Japan—3.

Ill. description.

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Newell, B. S. (1961)

Tech. Pap. Div. Fish. C.S.I.R.O., (10) : 22 p.

Hydrology of south-east Australian waters; Bass Strait and New South Wales tuna fishing area

Annual cycle of surface circulation; discussion of seasonal changes based on recoveries of drift bottles; vertical stratification of water masses; and hydrological properties.

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61-09296

Wisely, B. & C. Purday (1961)

Tech. Pap. Div. Fish. C.S.I.R.O., (12) : 12 p.

An algal mass-culture unit for feeding marine invertebrate larvae

Description of unit producing unialgal but not bacteria-free continuous or batch cultures; culture procedure; results of some trials of the unit.

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61-09297

Scott, G. H. (1961)

N.Z. J. Geol. Geophys., 4 (1) : 73-88

Foraminifera from an alternating sequence, Eketahuna, New Zealand

Studies on stability of microfauna, and size-frequency distribution of *Uvigerina miozea* Finlay.

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61-09298

Scott, G. H. (1961)

N.Z. J. Geol. Geophys., 4 (1) : 3-43

Contribution to the knowledge of *Rzehakina* Cushman (Foraminifera) in New Zealand

Morphological analysis and biometrical characterization.

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61-09299

Shindo, S. (1960)

Bull. Seikai reg. Fish. Res. Lab., (20) : 198 p.

(Studies on the stock of Yellow Sea bream in the east China Sea.) *Ni En*

Analysis of catch and effort statistics, biological sampling of catch; age determination, growth and maturity studies; sampling programme—using trade categories—for analysis of catch, preparation of age frequency tables, estimation of population parameters and preparation of yield equation.

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Umezaki, I. (1961)

Mem. Coll. Agric. Kyoto, (83) : 149 p.

The marine blue-green algae of Japan

Floristic composition and systematics of Cyanophyta, ecology, geographical distribution, seasonal periodicity, and economic importance.

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Aust. J. Phys., 14 (1) : 120-8

The sweep of long water waves across the Pacific Ocean

Discussion of the travel-time of the tsunami recorded in Australia after the Chilean earthquake in May 1960, and deduction from travel-time of average depth of Pacific Ocean between Tasmania and South America.

Mackerras, M. J. & I. M. Mackerras (1961)

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61-09302

Aust. J. Zool., 9 (1) : 123-39

The Haematozoa of Australian frogs and fish

Description, hosts and distribution.

Qudrat-i-Khuda, M., H. N. De & N. M. Khan (1960)

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Pakist. J. sci. ind. Res., 3 (2) : 79-82

Biochemical and nutritional studies on East Pakistan fish—3. Investigation on the mechanism of fish spoilage by study of the influence of visceral contents and boiling treatment on the autodehydrogenase activity of fish tissues

Co 61-07628.

Ali, S. A. & L. Rahman (1960)

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61-09304

Pakist. J. sci. ind. Res., 3 (2) : 125-6

A new method for refining of shark liver oil on commercial scale and recovery of vitamin A by partial saponification

Choat, J. H. (1960)

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61-09305

Tech. Pap. N.Z. Mar. Dep., (2) : 51 p.

Scallop investigation, Tasman Bay 1959-60

Description of the survey area, general biology of *Pecten novaezelandiae novaezelandiae*, spatial distribution in the bay, abundance, spawning and replacement of stock, growth rate, length frequency and size, technique of dredging, opening and preparation of scallops.

Munro, I. S. R. (1961)

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61-09306

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Handbook of Australian fishes—No. 39

Co 61-01100. Taxonomic description of Grammistidae and Epinephelidae with ill.

Knox, G. A. (1961)

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61-09307

Proc. roy. Soc. N.Z., 89 (1) : 167-82

The study of marine bottom communities

Techniques for the study of rocky bottoms and soft bottoms, discussions of biomass and community concept, and "parallel" level-bottom communities.

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Sci. Bull. Fac. Agric. Kyushu, 18 (3) : 285-310
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 Ill. description of general characteristics of eggs and larvae of 48 spp.
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 Descriptions of additional 10 spp.
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 (A study of the suspended matter in the sea and its importance as a factor characterizing the environment of shell-fish culture grounds). *Ni En*
 Distribution of bacteria, plankton and other organisms, presence of other organic or inorganic particulate matter; effects of transparency and chlorinity of water and seasonal variations on concentration of particles; field surveys to correlate environmental conditions and particle size.
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61-09311
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Mem. Fac. Fish. Hokkaido Univ., 8 (1) : 81 p.
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 Studies on the "browning" of canned crab meat (*Paralithodes camtschatica* Til.)
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Trans. roy. Soc. N.Z., 88 (4) : 669-98
 Studies on Australian and New Zealand diatoms—4. Descriptions of further sedentary species.
 Systematic descriptions of 192 spp. and varieties of epontic and benthic diatoms.
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Trans. roy. Soc. N.Z., 88 (4) : 699-712
 Studies on Australian and New Zealand diatoms—5. The Rawson collection of recent diatoms
 Co 61-09313. Collection of 272 slides of recent diatoms from Dunedin; descriptions of those spp. which are new records for Australasia.

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Trans. roy. Soc. N.Z., 88 (4) : 743-8
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Co 61-04711. Description of *R. richardsoni* n. sp.

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Trans. roy. Soc. N.Z., 88 (4) : 749-838
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 New genera and species of Ophiuroidea from Antarctica

Descriptions of *GLACIACANTHA jason* n.g., n. sp.; *EUVONDREA floretta* n.g., n. sp.; and *Ophiosteira bullvanti* n. sp.

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Trans. roy. Soc. N.Z., 88 (4) : 843
 A note on the spelling of the specific name of the immaculate spiny dogfish, *Squalus blainvillei* (Risso 1826)

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61-09319
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C.R. Acad. Sci., Paris, 252 (24) : 3867-9

Analyse de l'action des rayons X sur la multiplication d'un organisme chlorophyllien unicellulaire: la chlorophycée *Scenedesmus crassus* Chod (Analysis of the effect of X rays on the multiplication of an unicellular chlorophyllian organism; the Chlorophyceae *Scenedesmus crassus* Chod)

Checking of results previously by the use of culture in gelose.

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C.R. Acad. Sci., Paris, 252 (24) : 3876-8

Contribution à l'étude de la morphologie hypophysaire chez *Lepadogaster gouani* Lacépède (Téléostéens, Gobiesocidae) (Contribution to the study of the morphology of the hypophysis in *Lepadogaster gouani* Lacépède—Teleostean, Gobiesocidae)

Study of structure of hypophysis.

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Fine, J. & A. Drilhon (1961)

C.R. Acad. Sci., Paris, 252 (24) : 3891-3

Existence de globulines de faible mobilité électrophorétique dans le sérum de l'anguille soumise à des injections répétées de sérum humain (Existence of globulins of weak electrophoretic mobility in the serum of the eel subjected to repeated injections of human serum)

Techniques and results of experiments.

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61-09322

Magne, F. (1961)

C.R. Acad. Sci., Paris, 252 (25) : 4023-4

Sur la caryologie de deux rhodophycées considérées jusqu'ici comme à cycle cytologique entièrement haplophasique (On the caryology of two Rhodophyceae previously considered of having an entirely haplophasic cytological cycle)

Study of cycle in *Scinaia* and *Lemanea*.

F

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Rouch, R. (1961)

C.R. Acad. Sci., Paris, 252 (25) : 4062-4

Le développement et la croissance des copépodes harpacticides cavernicoles (Crustacés) Development and growth in harpacticid copepods from caves)

Study of larval development of 5 spp. of copepods at some temperature.

M

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Jerlov, N. G. (1960)

Tellus, 12 (3) : 348-55

Radiance distribution in the upper layers of the sea

The angular distribution of underwater radiance for green light has been studied in the upper turbid layers of the Gullmars Fjord by means of a radiance meter which is lowered in the sea along a guide wire with a fixed orientation.

MF

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Washington (State) Department of Fisheries (1960)

Res. Bull. Wash. Dep. Fish., (5) : 264 p.

Toxic effects of organic and inorganic pollutants on young salmon and trout

Studies to determine toxic effects of kraft waste effluent, other pulp mill wastes, and miscellaneous organic and inorganic chemicals on salmon and trout.

M

61-09326

Kangos, J. D. (1960)

J. geophys. Res., 65 (12) : 4007-12

A preliminary investigation of the heat flux from the ocean to the atmosphere in the Antarctic regions

Estimates have been made for the summer and fall seasons for the sensible and latent heat flux for 5° latitudinal zones from 40° S to 70° S eastward between 20° E and 180°.

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Le Pichon, X. (1960)

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J. geophys. Res., 65 (12) : 4061-74

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The deep water circulation in the southwest Indian Ocean

The "core method", together with geostrophic computations, is used to make a tentative interpretation of the circulation of the deep water in the southwest Indian Ocean.

Schooley, A. H. (1960)

G

J. geophys. Res., 65 (12) : 4075-9

61-09328

Double, triple, and higher-order dimples in the profiles of wind-generated water waves in the capillary-gravity transition region

Photographs of short-fetch wind-generated water waves are used to show examples of "double-dimple" wave profiles in the region of 2.44-cm wavelength.

Arthur, R. S. (1960)

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J. geophys. Res., 65 (12) : 4081-6

61-09329

Variation in sea temperature off La Jolla

Description of hour to hour and seasonal changes in temperature, measured by BT at 32° 52' 30" N and 117° 16' 50" W during the IGY period.

Ewing, J., J. Antoine & M. Ewing (1960)

M

J. geophys. Res., 65 (12) : 4087-126

61-09330

Geophysical measurements in the western Caribbean Sea and in the Gulf of Mexico

The data from 48 seismic refraction profiles in the western Caribbean Sea and in the Gulf of Mexico are presented in the form of structure sections crossing the Colombian Basin, Nicaraguan Rise, Cayman Trough, Cayman Ridge, Beata Ridge, Yucatan Basin, Campeche Bank, and Sigsbee Deep.

Alm, G. (1960)

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Rep. Inst. Freshw. Res. Drottning, (41) : 5-148

61-09331

Limnologisch-fischereiliche Untersuchungen in den Kälärne-Seen (Limnological-fisheries investigations in the Kälärne Lakes). En

Study to determine circumstances that account for occurrence of different types of lakes in spite of uniform climatic and geologic conditions.

Hendelberg, J. (1960)

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Rep. Inst. Freshw. Res. Drottning, (41) : 149-71

61-09332

The freshwater pearl mussel, *Margaritifera margaritifera* (L.)

Distribution, age and growth and population composition.

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Rep. Inst. Freshw. Res. Drottning, (41) : 172-84
 About the effect of rotenone upon benthonic animals in lakes
- Nilsson, N.-A.** (1960) F
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Rep. Inst. Freshw. Res. Drottning, (41) : 185-205
 Seasonal fluctuations in the food segregation of trout, char and whitefish in 14 north-Swedish lakes
 Based on 3102 trout and char stomachs and 1305 whitefish stomachs.
- Pfannenstiel, M.** (1960) M
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Bull. Inst. océanogr. Monaco, (1192) : 60 p.
 Erläuterungen zu den bathymetrischen Karten des östlichen Mittelmeeres (Explanations to the bathymetric charts of the eastern Mediterranean).
 En Fr
 Description of the bathymetry, topographical profiles, vulcanism, earthquake-epicentres and notes on sediments.
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N.Y. Fish Game J., 6 (2) : 204-37
 Trout growth in hatcheries
 Water temperature, spp., and feeding levels are major factors that affect trout growth. Data for brook trout are analysed.
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N.Y. Fish Game J., 7 (1) : 14-25
 Effect of sevin upon the aquatic environment
- Lindsey, J. J.** (1960) F
61-09338
N.Y. Fish Game J., 7 (1) : 33-8
 Pelleted dry food as a total diet for trout
 Effect of feeding total diet of pelleted dry foods to brook and brown trout compared with pellet diet supplemented by meat. No significant differences, all pellet ration more economical.
- Haskell, D. C., R. Davies & J. Reckahn** (1960) F
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N.Y. Fish Game J., 7 (1) : 39-45
 Effect of sorting brown trout on sex ratio and growth
 Effect of sorting was only temporary in producing groups of uniform size in brown trout.

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Loeb, H. A. (1960)

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61-09340

N.Y. Fish Game J., 7 (1) : 60-71

Reactions of aquarium carp to food and flavors

Reactions of carp to 115 flavors and many foods were observed.

Cooper, A. L. (1960)

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61-09341

N.Y. Fish Game J., 7 (1) : 72-6

Lethal oxygen concentrations for the northern common shiner

Swanson, G. A., H. R. Erickson & J. S. Mackiewicz (1960)

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61-09342

N.Y. Fish Game J., 7 (1) : 77-9

Swimmers' itch in farm ponds in the New York State

Occurrence and control.

Bernhardt, R. W. (1960)

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61-09343

N.Y. Fish Game J., 7 (1) : 83-4

Effect of fyke-net position on fish catch

Forneris, L. (1959)

M
61-09344

Bol. Inst. oceanogr. S. Paulo, 10 (2) : 105 p.

Phoronidea from Brazil. Pr

Taxonomic description, description of various stages, occurrence, distribution, biological notes.

Alvarez del Toro, M. (1958)

MF
61-09345

Rev. Soc. méx. Hist. nat., 19 (1-4) : 73-113

Lista de las especies de aves que habitan en Chiapas. Endemicas, emigrantes y de paso (List of species of birds inhabiting Chiapas. Endemic, emigrants, visitors)

Systematic list of spp. and their habitats.

Maldonado-Koerdell, M. (1958)

M
61-09346

Rev. Soc. méx. Hist. nat., 19 (1-4) : 173-99

Breve historia de los estudios oceanográficos en Mexico (hasta 1957) (Brief story of the oceanographic studies in Mexico, until 1957)

Alvarez del Villar, J. (1959)

MF
61-09347

Rev. Soc. méx. Hist. nat., 20 (1-4) : 85-98

Sobre los peces mencionados en "el origen de las especies" (About the fishes mentioned in the "origin of the species")

Comments based on knowledge of fishes acquired since the publication of "Origin of Species".

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Alvarez del Villar, J. (1960)

Rev. Soc. mex. Hist. nat., 21 (1) : 49-61

Cincuenta años de ictiología en Mexico (Fifty years of ichthyology in Mexico)

A review of ichthyological studies done by various scientists.

MF

61-09349

Maynard, D. M. (1960)

Physiol. Zool., 33 (4) : 241-51

Heart rate and body size in the spiny lobster

Experimental study of three specimens ranging in size from 0.14 to 3260 g. Comparison with other crustaceans, and with molluscs—Anodonta—and terrestrial animals, suggests that decapods may rely on high heart rate rather than large oxygen pulse to bring adequate oxygen to tissues.

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61-09350

Fingerman, M., M. I. Sandeen & W. C. Mobberly, Jr. (1960)

Physiol. Zool., 33 (4) : 260-70

Hormonal regulation of the distal retinal pigment of crustaceans with special reference to the shrimp *Crangon septemspinosa*

Review and report of investigations of *Crangon*, *Uca* and *Palaemonetes* spp. from Woods Hole, Massachusetts.

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Srivastava, P. N. (1960)

Physiol. Zool., 33 (4) : 277-80

Utilization of radioiodine by the thyroid gland of goldfish, *Carassius auratus* L.

Experiments to determine utilization when in fresh- or iodine enriched-water. Comparison with other fishes—*Petromyzon*, *Salmo salar*, *Xiphophorus*, *Mugil*, *Conger*, *Scyliorhinus*, *Fundulus*.

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61-09352

Kinne, O. (1960)

Physiol. Zool., 33 (4) : 288-317

Growth, food intake, and food conversion in a euryplastic fish exposed to different temperatures and salinities

Ci 59-2970. Experiments with *Cyprinodon macularius*.

M

61-09353

Bachmann, R. W. & E. P. Odum (1960)

Limnol. Oceanogr., 5 (4) : 349-55

Uptake of Zn_{65} and primary productivity in marine benthic algae

The rate of uptake of Zn^{65} from sea water and the primary production of 6 spp. of marine benthic algae were measured in light and dark bottles suspended in an aquarium under constant light and temperature, and 1 sp., *Chaetomorpha linum*, also in bottles suspended at different depths in a marine pond.

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Wright, J. C. (1960)
Limnol. Oceanogr., 5 (4) : 356-61

The limnology of Canyon Ferry reservoir: 3. Some observations on the density dependence of photosynthesis and its cause

Co 59-9258. Net euphotic zone photosynthesis was maximal at intermediate values of chlorophyll concentration and was less at chlorophyll concentrations above or below the intermediate range.

M
61-09355

Vishniac, H. S. (1960)
Limnol. Oceanogr., 5 (4) : 362-5

Salt requirements of marine phycomycetes

49 isolates of nonfilamentous phycomycetes of marine origin were found to require NaCl for optimum growth.

M
61-09356

Fell, J. W. et al. (1960)
Limnol. Oceanogr., 5 (4) : 366-71

Isolation of yeasts from Biscayne Bay, Florida and adjacent benthic areas

Investigations of the yeasts have indicated the occurrence of various yeast taxa, representing 179 isolates. 2 asporogenous spp., *Candida tropicalis* and *Rhodotorula mucilaginosa*, were the most abundant and widely distributed spp. in the Bay.

F
61-09357

Verduin, J. (1960)
Limnol. Oceanogr., 5 (4) : 372-80

Phytoplankton communities of western lake Erie and the CO₂ and O₂ changes associated with them

Study of the abundance of phytoplankton, using settling method and study of the production by dark and clear bottle technique and CO₂ and O₂ changes in the lake.

M
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Matthiessen, G. C. (1960)
Limnol. Oceanogr., 5 (4) : 381-8

Intertidal zonation in populations of *Mya arenaria*

The similarities between the patterns of clam and surface sediment distribution are discussed, and it is suggested that hydrodynamic forces are primarily responsible for the zonation of *Mya* populations in intertidal areas.

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61-09359

Mokievskii, O. B. (1960)
Limnol. Oceanogr., 5 (4) : 389-96

Geographical zonation of marine littoral types

CR 60-0838. Notes on comparative biogeography of benthos communities.

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Limnol. Oceanogr., 5 (4) : 397-408
On internal waves in lakes

Internal waves, have been studied at a given depth by simultaneous continuous temperature measurement at three closely spaced stations. From these observations and the mean vertical gradient the amplitude, direction, period and speed of the internal waves have been determined.

- Lathbury, A., R. Bryson & B. Lettau** (1960) F
61-09361
Limnol. Oceanogr., 5 (4) : 409-13
Some observations of currents in the hypolimnion of lake Mendota

Observations of hypolimnetic currents in lake Mendota, integrated over entire seiche periods, indicate that steady motions exist below the thermocline.

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Limnol. Oceanogr., 5 (4) : 414-24
Temperature variations in Esquimalt Lagoon—A small landlocked body of water subject to tidal flushing.

Time series observations, extending over two tidal cycles, of temperatures and micro-temperature fluctuations at different positions and surface wave amplitudes at two fixed locations have been described.

- Smith, J. B., M. Tatsumoto & D. W. Hood** (1960) F
61-09363
Limnol. Oceanogr., 5 (4) : 425-31
Carbamino carboxylic acids in photosynthesis

Cultures of *Platymonas* sp., *Nitzschia closterium* and *Porphyridium cruentum* were found to utilize the carbamino complex of alanine or sea water concentrates in preference to inorganic forms of CO₂ for photosynthesis. Several other organic compounds were tested for response in the algae but only ammonium carbonate acted similarly.

- Jannasch, H. W. & G. E. Jones** (1960) M
61-09364
Limnol. Oceanogr., 5 (4) : 432-3
Caulobacter sp. in sea water

Note on identification of the sp. in sea water.

- Frey, D. G.** (1960) F
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Limnol. Oceanogr., 5 (4) : 435-6
[Review]

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Ridenhour, R. L. (1960)

61-09366

Iowa St. Coll. J. Sci., 35 (1) : 1-23

Abundance, growth and food of young game fish in Clear Lake, Iowa, 1949 to 1957

Analyses of data on abundance, growth and food of young of *Perca flavescens*, *Micropterus salmoides*, *Lepomis macrochirus*, *L. gibbosus*, *Pomoxis nigromaculatus*, *Ictalurus melas*, *Stizostedion vitreum*, *Roccus chrysops*, *R. mississippiensis*, *Esox lucius*, *Ictalurus punctatus*, *I. nebulosus*, *Micropterus dolomieu* and *Pomoxis annularis*.

G

Watt, K. E. F. (1960)

61-09367

Canad. Ent., 92 (9) : 674-95

The effect of population density on fecundity in insects

Some general mathematical population models incorporating density dependent fecundity rates are developed and tested. Incl. short general discussion of this problem.

M

Johnson, T. W., Jr. & R. R. Bonner, Jr. (1960)

61-09368

J. Elisha Mitchell sci. Soc., 76 (1) : 147-9 . .

Lagenidium callinectes Couch in barnacle ova

This fungus, described originally from ova of *Callinectes sapidum*, now found in *Chelonibia patula* egg masses from North Carolina waters.

MF

Newman, H. W. & A. B. Groves (n.d.)

61-09369

Proc. Mont. Acad. Sci., 19 : 84-90

Relationship of fish size and water velocity to the fish guiding effectiveness of a single-row electrode array

The relationship of fish size and water velocity to the fish-guiding effectiveness of a single-row electrode array was tested under controlled laboratory conditions using three sizes of fingerling salmon, *Oncorhynchus kisutch*; 59 mm, 80 mm and 105 mm mean total length. Also three water velocities were used: 0.28 feet per second, 0.45 feet per second and 0.56 feet per second.

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Proc. Conf. Southeast. Ass. Game Commrs, (11) : 6-11

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- Seasonal cycle in this lagoon connected with Gulf of Mexico and relation of bloom to solar radiation, temperature and rainfall.
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Trans. Amer. Fish. Soc., 90 (1) : 42-8
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- Samples of 1958 spawning run; regression of density and survival on distance above stream mouth.

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Trans. Amer. Fish. Soc., 90 (1) : 49-57

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Trans. Amer. Fish. Soc., 90 (1) : 58-72

Mortalities of downstream migrant salmon at McNary Dam

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MF

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Trans. Amer. Fish. Soc., 90 (1) : 73-8

Diurnal periodicity in the activity of *Petromyzon marinus* and the effects of chemical stimulation

The transforming ammocoete and parasite display endogenous cyclic activity rhythm, gradually lost in constant conditions of dim light but re-established by exposing animal to artificial diurnal light cycles. Samples from Lake Huron and Lake Ontario. Description and ill. of apparatus used.

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Trans. Amer. Fish. Soc., 90 (1) : 79-80

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MF

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Comm. Fish. Rev., 22 (11) : 1-11
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Comm. Fish. Rev., 23 (3) : 1-14
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TA 16 (5) i1305. Describes methods of catching and transport of the sp.

Anon. (1961)
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Ecuador turning to sea resources

TA 16 (5) i1306. Discusses Ecuador's interest in exploiting her marine resources. With aid from the US Special Fund the Government began a 4-year project for the establishment of a National Fishery Institute. The institute aims to foster economic development through a substantial expansion of fishing.

Australia. Laws, Statutes, etc. (1961)
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M
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Notice under the pearl fisheries act, 1952-1953, section 9, relating to removal of live pearl shell, trochus, bêche-de-mer and green snail.—24 January 1961

Prohibits the removal of the said sea products except by persons specially authorized, using prescribed instruments and in specified waters.

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New South Wales. Laws, Statutes, etc. (1960)
Act No. 31 of 1908, 141 p.

Pure food act 1908-1958, as amended, and regulations thereunder; an act for securing the wholesomeness and purity of food and drugs, and fixing standards for the same; for preventing the sale or other disposition, or the use of articles dangerous or injurious to health; for the prevention of deception and fraud; to amend the public health act, 1902; and for purposes consequent thereon or incidental thereto.—Certified: 26 July 1960

NE 1908 New South Wales. Laws, Statutes, etc. Repeals and replaces all the previous regulations made under the said act. Covers also fish and fish products.

MF
61-09433

New South Wales. Laws, Statutes, etc. (1961)
Govt Gaz. N.S.W., (13) : 307

Proclamation made under the fisheries and oyster farms act, 1935, as amended, relating to the whole of the water of Cuttage Lake, County of Dampier.—4 January 1961

Prohibits the taking of fish by means of hauling nets as prescribed, in the specified tidal waters, from 1 May 1961 to 30 Aug. 1966.

F
61-09434

New South Wales. Laws, Statutes, etc. (1961)
Govt Gaz. N.S.W., (20) : 449

Closure notification under the fisheries and oyster farms act, 1935-1960, relating to a portion of the waters of Campbell's River, Counties of Bathurst, Westmoreland and Roxburgh.—9 February 1961

Prohibits the taking of fish by all methods, in the specified inland waters, from 1 Mar. 1961 to 28 Feb. 1962.

MF
61-09435

South Australia. Laws, Statutes, etc. (1959)
Separate publ., 15 p.

Amendment of regulations under the food and drugs act, 1908-1954.—10 September 1959

New reg. 40 (17) on canned fish products.

M
61-09436

Tasmania. Laws, Statutes, etc. (1960)
Stat. Rules Tasm., (144)

Sea fisheries amendment regulations (No. 2) 1960.—11 October 1960

Amendment to the sea fisheries regulations 1957 relates to restrictions on the taking of crayfish and to minimum sizes of certain kinds of fish that may be taken.

Victoria. Laws, Statutes, etc. (1960)MF
61-09437*Govt Gaz. Victoria*, extr. (45) : 7 p.

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Extensive amendments, relating to fish paste and canned fish products, labelling contents, etc.

Western Australia. Laws, Statutes, etc. (1961)M
61-09438*Govt Gaz. W. Aust.*, (7) : 153-4

Proclamation made under the fisheries act 1905-1960.—18 January 1961

Ad 61-08665. Prescribes size and mesh of prawn nets to be used in the specified waters during the currency of the said proclamation. Amends proclamation of 17 Nov. 1960 on the same subject.

Western Australia. Laws, Statutes, etc. (1961)M
61-09439*Govt Gaz. W. Aust.*, (16) : 447

Proclamation made under the fisheries act, 1905-1960.—2 February 1961

Prohibits, for a period of 5 years, all persons from taking fish in Shark Bay by means of fish traps.

Western Australia. Laws, Statutes, etc. (1961)F
61-09440*Govt Gaz. W. Aust.*, (15) : 431

Regulations made under the fisheries act, 1905-1960.—6 February 1961

Amends the fisheries act regulations published in the *Govt Gaz.* of 6 May 1938, as amended. The modifications concern length of crayfish and labelling of receptacles containing fish.

Canada. Laws, Statutes, etc. (1960)M
61-09441*Can. Gazette (II)*, (22) : 1426

Statutory orders and regulations 60-507. Order in council P.C. 1960-1505 amending the New Brunswick fishery regulations, made under the fisheries act.—3 November 1960

The amendment concerns pollock fishing by means of a purse-seine.

Canada. Laws, Statutes, etc. (1960)M
61-09442*Can. Gazette (II)*, (22) : 1474

Décrets, ordonnances et règlements statutaires 60-507. Arrêté C.P. 1960-1505 modifiant le règlement de pêche du Nouveau-Brunswick en vertu de la loi sur les pêcheries.—3 novembre 1960 (Statutory orders and regulations 60-507. Order in council P.C. 1960-1505 amending the New Brunswick fishery regulations, made under the fisheries act.—3 November 1960)

Fr 61-09441.

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MF

61-09443

Canada. Laws, Statutes, etc. (1960)

Can. Gazette (II), (22) : 1427

SOR/60-508. Order in council P.C. 1960-1506 to amend the Nova Scotia fishery regulations made under the fisheries act.—3 November 1960

For the year 1960 only. Eels may be taken in any river in Lunenburg County and Queen's County, by means of brush weirs or eel traps but by no other method from 15 Aug. to 20 Nov., both days incl.

F

61-09444

Canada. Laws, Statutes, etc. (1960)

Can. Gazette (II), (22) : 1475

DORS/60-508. Arrêté C.P. 1960-1506 modifiant le règlement de pêche de la Nouvelle-Écosse, en vertu de la loi sur les pêcheries.—3 novembre 1960 (SOR/60-508. Order in council P.C. 1960-1506 to amend the Nova Scotia fishery regulations made under the fisheries act.—3 November 1960)

Fr 61-09443.

M

61-09445

Canada. Laws, Statutes, etc. (1960)

Can. Gazette (II), (22) : 1441

SOR/60-513. Order in council P.C. 1960-1537 to amend the lobster fishery regulations made under the fisheries act.—10 November 1960

The holder of a licence issued for lobster fishery district No. 1 or 2 may fish in either or both districts from 15 Nov. 1960 to 24 Jun. 1961.

M

61-09446

Canada. Laws, Statutes, etc. (1960)

Can. Gazette (II), (22) : 1489

DORS/60-513. Arrêté C.P. 1960-1537 modifiant le règlement de pêche du homard en vertu de la loi sur les pêcheries.—10 novembre 1960 (SOR/60-513. Order in council P.C. 1960-1537 to amend the lobster fishery regulations made under the fisheries act.—10 November 1960)

Fr 61-09445.

M

61-09447

Canada. Laws, Statutes, etc. (1960)

Can. Gazette (II), (23) : 1509

SOR/60-547. Shellfishing order, pursuant to the New Brunswick fishery regulations made under the fisheries act.—16 November 1960

Re-opens, for the taking of clams for the purpose of canning, shellfish areas closed by order of 15 Jul. 1960

M

61-09448

Canada. Laws, Statutes, etc. (1960)

Can. Gazette (II), (23) : 1560

DORS/60-547. Avis relatif à la pêche aux coquillages en vertu du règlement de pêche du Nouveau-Brunswick, selon la loi sur les pêcheries.—16 novembre 1960 (SOR/60-547. Shellfishing order, pursuant to the New Brunswick fishery regulations made under the fisheries act.—16 November 1960)

Fr 61-09447. Ad 61-05800.

F

Canada. Laws, Statutes, etc. (1960)

61-09449

Can. Gazette (II), (23) : 1455

SOR/60-526. Order in council P.C. 1960-1559 amending the Ontario fishery regulations pursuant to the fisheries act.—17 November, 1960

Revokes provisions relative to Lake Erie gill-net, pound-net and trap-net licences.

F

Canada. Laws, Statutes, etc. (1960)

61-09450

Can. Gazette (II), (23) : 1505

DORS/60-526. Arrêté C.P. 1960-1559 modifiant le règlement de pêche de l'Ontario en vertu de la loi sur les pêcheries.—17 novembre 1960 (SOR/60-526. Order in council P.C. 1960-1559 amending the Ontario fishery regulations pursuant to the fisheries act.—17 November 1960)

Fr 61-09449.

MF

Canada. Laws, Statutes, etc. (1960)

61-09451

Can. Gazette (II), (24) : 1519

SOR/60-554. Order in council P.C. 1960-1666 amending the New Brunswick fishery regulations made under the fisheries act.—8 December 1960

Revokes provision relative to smelt gill-net fishing in certain waters of the County of Kent.

MF

Canada. Laws, Statutes, etc. (1960)

61-09452

Can. Gazette (II), (24) : 1571

DORS/60-554. Arrêté C.P. 1960-1666 modifiant le règlement de pêche du Nouveau-Brunswick selon la loi sur les pêcheries.—8 décembre 1960 (SOR/60-554. Order in council P.C. 1960-1666 amending the New Brunswick fishery regulations made under the fisheries act.—8 December 1960)

Fr 61-09451.

M

Canada. Laws, Statutes, etc. (1961)

61-09453

Can. Gazette (II), (3) : 164-6

SOR/61-39. Order in council P.C. 1961-100, made under the customs act, relating to tariff treatment—duties reduced on certain goods.—26 January 1961

Such goods incl. frozen tuna loins for use in the manufacture of canned tuna.

M

Canada. Laws, Statutes, etc. (1961)

61-09454

Can. Gazette (II), (3) : 168-70

DORS/61-39. Arrêté C.P. 1961-100, selon la loi sur les douanes, relatif au régime tarifaire—Droits réduits à l'égard de certaines marchandises.—26 janvier 1961 (SOR/61-39. Order in council P.C. 1961-100, made under the customs act, relating to tariff treatment, duties reduced on certain goods.—26 January 1961)

Fr 61-09453.

REFERENCES

MF
61-09455

Canada. Laws, Statutes, etc. (1961)
Can. Gazette (II), (3) : 167-8

SOR/61-40. Order in council P.C. 1961-101 amending the canned fish and shellfish and cannery inspection regulations made under the meat and canned foods act.—26 January 1961

Concerns labelling and marking.

MF
61-09456

Canada. Laws, Statutes, etc. (1961)
Can. Gazette (II), (3) : 171-2

DORS/61-40. Arrêté C.P. 1961-101 modifiant le règlement visant l'inspection des conserveries et des conserves de poisson, mollusques et crustacés en vertu de la loi sur les viandes et conserves alimentaires.—26 janvier 1961 (SOR/61-40. Order in council P.C. 1961-101 amending the canned fish and shellfish and cannery inspection regulations made under the meat and canned foods act.—26 January 1961)

Fr 61-09455.

M
61-09457

Canada. Laws, Statutes, etc. (1961)
Can. Gazette (II), (4) : 184

SOR/61-51. Order in council P.C. 1961-127, amending the British Columbia fishery regulations made under the fisheries act.—2 February 1961

For the year 1961 only herring may be taken by means of purse-seine or trawl-nets in the waters of the lower east coast of Vancouver Island sub-district during the closed season but no herring shall be taken for reduction purposes.

M
61-09458

Canada. Laws, Statutes, etc. (1961)
Can. Gazette (II), (4) : 188

DORS/61-51. Arrêté C.P. 1961-127 modifiant le règlement de pêche de la Colombie-Britannique en vertu de la loi sur les pêcheries.—2 février 1961 (SOR/61-51. Order in council P.C. 1961-127, amending the British Columbia fishery regulations made under the fisheries act.—2 February 1961)

Fr 61-09457.

MF
61-09459

Canada. Laws, Statutes, etc. (1961)
Can. Gazette (II), (4) : 185-8

SOR/61-52. Order in council P.C. 1961-128 amending the Ontario fishery regulations pursuant to the fisheries act.—2 February 1961

Amendments in respect of bag limits, closed seasons, methods of taking fish, etc.

Canada. Laws, Statutes, etc. (1961) MF
61-09460
Can. Gazette (II), (4) : 189-92

DORS/61-52. Arrêté C.P. 1961-128 modifiant le règlement de pêche de l'Ontario en vertu de la loi sur les pêcheries.—2 février 1961 (SOR/61-52. Order in council P.C. 1961-128 amending the Ontario fishery regulations pursuant to the fisheries act.—2 February 1961)

Fr 61-09459.

Canada. Laws, Statutes, etc. (1961) MF
61-09461
Can. Gazette (II), (4) : 189

SOR/61-53. Order in council P.C. 1961-129, amending the New Brunswick fishery regulations pursuant to the fisheries act.—2 February 1961

Amendments with respect to contaminated areas where no person shall fish for or take shellfish for use as a raw food.

Canada. Laws, Statutes, etc. (1961) MF
61-09462
Can. Gazette (II), (4) : 193

DORS/61-53. Arrêté C.P. 1961-129 modifiant le règlement de pêche du Nouveau-Brunswick en vertu de la loi sur les pêcheries.—2 février 1961 (SOR/61-53. Order in council P.C. 1961-129, amending the New Brunswick fishery regulations pursuant to the fisheries act.—2 February 1961)

Fr 61-09461.

Canada. Laws, Statutes, etc. (1961) MF
61-09463
Can. Gazette (II), (4) : 190

SOR/61-54. Order in council P.C. 1961-130 amending the Nova Scotia fishery regulations pursuant to the fisheries act.—2 February 1961

Amendments in respect of contaminated areas where fishing for or taking shellfish is restricted or prohibited.

Canada. Laws, Statutes, etc. (1961) MF
61-09464
Can. Gazette (II), (4) : 194

DORS/61-54. Arrêté C.P. 1961-130 modifiant le règlement de pêche de la Nouvelle-Écosse en vertu de la loi sur les pêcheries.—2 février 1961 (SOR/61-54. Order in council P.C. 1961-130 amending the Nova Scotia fishery regulations pursuant to the fisheries act.—2 February 1961)

Fr 61-09463.

Canada. Laws, Statutes, etc. (1961) M
61-09465
Can. Gazette (II), (4) : 191

SOR/61-55. Order in council P.C. 1961-131 amending the coastal fisheries protection regulations made under the coastal fisheries protection act.—2 February 1961

Description of the signal requiring a fishing vessel to bring to.

REFERENCES

M

61-09466

Canada. Laws, Statutes, etc. (1961)

Can. Gazette (II), (4) : 195

DORS/61-55. Arrêté C.P. 1961-131 modifiant le règlement sur la protection des pêcheries côtières en vertu de la loi sur la protection des pêcheries côtières.—2 février 1961 (SOR/61-55. Order in council P.C. 1961-131 amending the coastal fisheries protection regulations made under the coastal fisheries protection act.—2 February 1961)

Fr 61-09465.

M

61-09467

Canada. Laws, Statutes, etc. (1961)

Can. Gazette (II), (4) : 231

SOR/61-60. Order in council P.C. 1961-164 amending the seal protection regulations made under the fisheries act.—9 February 1961

Addition of two areas where killing or taking seals is restricted.

M

61-09468

Canada. Laws, Statutes, etc. (1961)

Can. Gazette (II), (4) : 235

DORS/61-60. Arrêté C.P. 1961-164 modifiant le règlement pour la protection des phoques en vertu de la loi sur les pêcheries.—9 février 1961 (SOR/61-60. Order in council P.C. 1961-164 amending the seal protection regulations made under the fisheries act.—9 February 1961)

Fr 61-09467.

F

61-09469

Canada. Laws, Statutes, etc. (1961)

Can. Gazette (II), (4) : 232-3

SOR/61-61. Order in council P.C. 1961-165 amending the Alberta fishery regulations made under the fisheries act.—9 February 1961

Amendments in respect of angling, propagation of fish, etc.

F

61-09470

Canada. Laws, Statutes, etc. (1961)

Can. Gazette (II), (4) : 236-7

DORS/61-61. Arrêté C.P. 1961-165 modifiant le règlement de pêche de l'Alberta en vertu de la loi sur les pêcheries.—9 février 1961 (SOR/61-61. Order in council P.C. 1961-165 amending the Alberta fishery regulations made under the fisheries act.—9 February 1961)

Fr 61-09469.

M

61-09471

Canada. Laws, Statutes, etc. (1961)

Can. Gazette (II), (4) : 234

SOR/61-62. Order in council P.C. 1961-166, amending the British Columbia fishery regulations made under the fisheries act.—9 February 1961

Increases for 1961 the bag limit of herring in the northern sub-district of district No. 2—area extending from Cape Caution to the northerly boundary of the province.

M

Canada. Laws, Statutes, etc. (1961)

61-09472

Can. Gazette (II), (4) : 238

DORS/61-62. Arrêté C.P. 1961-166 modifiant le règlement de pêche de la Colombie-Britannique en vertu de la loi sur les pêcheries.—9 février 1961 (SOR/61-62. Order in council P.C. 1961-166, amending the British Columbia fishery regulations made under the fisheries act.—9 February 1961)

Fr 61-09471.

M

Canada. Laws, Statutes, etc. (1961)

61-09473

Can. Gazette (II), 4 : 235

SOR/61-63. Order in council P.C. 1961-167 amending the canned fish and shellfish and cannery inspection regulations made under the meat and canned foods act.—9 February 1961

New section 9A on labelling of cans of lobster, tomalley or lobster paste.

M

Canada. Laws, Statutes, etc. (1961)

61-09474

Can. Gazette (II), (4) : 239

DORS/61-63. Arrêté C.P. 1961-167 modifiant le règlement visant l'inspection des conserveries et des conserves de poisson, mollusques et crustacés en vertu de la loi sur les viandes et conserves alimentaires.—9 février 1961 (SOR/61-63. Order in council P.C. 1961-167 amending the canned fish and shellfish and cannery inspection regulations made under the meat and canned foods act.—9 February 1961)

Fr 61-09473.

MF

Canada. Laws, Statutes, etc. (1961)

61-09475

Can. Gazette (II), (5) : 280 p.

SOR/61-76. Order P.C. 1961-244, amending the canned fish and shellfish and cannery inspection regulations made under the meat and canned foods act.—23 February 1961

Amendment relating to labelling or marking of cans.

MF

Canada. Laws, Statutes, etc. (1961)

61-09476

Can. Gazette (II), (5) : 286

DORS/61-76. Arrêté C.P. 1961-244 modifiant le règlement visant l'inspection des conserveries et des conserves de poisson, mollusques et crustacés en vertu de la loi sur les viandes et conserves alimentaires.—23 février 1961 (SOR/61-76. Order P.C. 1961-244, amending the canned fish and shellfish and cannery inspection regulations made under the meat and canned foods act.—23 February 1961)

Fr 61-09475.

REFERENCES

Quebec. Laws, Statutes, etc. (1960)

MF
61-09477

Statutes, Que., 8-9 eliz. II, 1959-60, chapt. 74 : 347

Loi modifiant la loi du département des pêcheries.—10 mars 1960 (An act to amend the fisheries department act.—10 March 1960)

The Minister of Fisheries is authorized to make advance or loans to fishermen or to societies trading in fish, for the construction, repair or purchase of fishing-boats.

Chile. Laws, Statutes, etc. (1960)

MF
61-09478

Diario ofic. Chile, (24,778) : 2014-28

Ley Núm. 14,171, por la que se cambia el nombre al Ministerio de Economía, modifican las leyes que indica, se establecen y aumentan los impuestos que señala, conceden al Presidente de la República las facultades que menciona y se dispone coordinar la inversión de los recursos fiscales como también los recursos de las instituciones semifiscales de administración autónoma y empresas del Estado orientándolos hacia los fines de reconstrucción y fomento de la producción. 24 de octubre de 1960 (Act No. 14.171, changing the name of the Ministry of Economy; amending certain enactments; establishing or increasing certain taxes; granting the President of the Republic certain powers; and providing for the coordination of expenditures of Government funds and of semi-public funds of autonomous agencies and State enterprises, orienting the same for the purposes of reconstruction and development of reconstruction.—24 October 1960)

Title 9 contains economic development measures, incl. (art. 134) a special five-year fisheries development plan.

Colombia. Laws, Statutes, etc. (1960)

MF
61-09479

Diario ofic. Colombia, (30324) : 594

Decreto Núm. 2059 de 31 de agosto de 1960 por el cual se adiciona el decreto Núm. 469 de 1960, reglamentario de la ley 26 de 1959 (Decree No. 2059, supplementing decree No. 469 of 1960, regulating application of act No. 26 of 1959.—31 August 1960)

In respect of farm and fisheries credit. Repayment may be postponed under certain conditions.

Denmark. Laws, Statutes, etc. (1960)

MF
61-09480

Lovtidende A, (30) : 1374

Nr. 371. Bekendtgørelse om salg af rogede fisk og fiskevarer fra frugt og grøntforretninger m.v.—28 oktober 1960 (Order No. 371 relative to the sale of smoked fish and fisheries products at shops selling fruit and vegetables, etc.—28 October 1960)

Stipulates conditions governing sales as above, infractions of which are subject to penalty under the act No. 50 of 11 May. 1954 relative to quality control of fish and fisheries products.

Denmark. Laws, Statutes, etc. (1960) M
61-09481
Lovtidende A, (34) : 1508-9

Bekendtgørelse Nr. 408 om oppustelige flåder i fiskeskibe.—22 december 1960 (Order No. 408 relative to inflatable floating rafts on fishing craft.—22 December 1960)

Provides detailed specifications regarding type, quality, dimensions, etc. of such rafts which are compulsory equipment for every crew member on Danish fishing vessels between 20 and 150 tons and fishing craft of less than 20 tons plying the North Sea west of 6° longitude. Special further provisions apply to vessels between 150 and 500 tons, and over 500 tons respectively.

Finland. Laws, Statutes, etc. (1960) F
61-09482
Finlands FörfattnSaml., (170-177); 436

Förordning N:o 171 om bringande i kraft av protokollet om ändrad lydelse av den genom deklarationen den 10 maj 1927 mellan Finland och Sverige fastställda stadgan för fiskets bedrivande inom Torne älvs fiskeområde.—1 april 1960 (Decree No. 171 relative to the bringing into force of the protocol amending the regulation governing fishing in the fisheries area of the Torne River established by the declaration of 10 May 1927 between Finland and Sweden.—1 April 1960)

This decree ratifies the agreement with the amendment to clause 3 of Section 6 of the regulation aforesaid.

Finland. Laws, Statutes, etc. (1960) M
61-09483
Finlands FörfattnSaml., (183-189) : 459

Lag N:o 183 angående ändring av 2 § lagen om fiske.—13 april 1960 (Act No. 183 amending article 2 of the fisheries act.—13 April 1960)

All Finnish citizens are entitled to engage in maritime fishing at sea outside the boundaries villages, in coastal waters and off islands belonging to the State. Fishing for household consumption or sport purposes is also permitted for citizens of Iceland, Norway, Sweden and Denmark.

Finland. Laws, Statutes, etc. (1960) F
61-09484
Finlands FörfattnSaml., (287-295) : 857

Lantbruksministeriets beslut N:o 295 om handel med undermålig sik från Enare träsk.—17 juni 1960 (Resolution No. 295 of the Ministry of Agriculture relative to trade in white fish of substandard dimensions from Enare marshes).—17 June 1960

Permits sale of such fish subject to its being specially marked.

France. Laws, Statutes, etc. (1961) F
61-09485
J. off. Rép. franç., (42) : 1824

Arrêté du 11 février 1961 portant interdiction de l'exercice de toute espèce de pêche dans la partie maritime des rivières de Penzé et du Dossen ou rivière de Morlaix (Order prohibiting any type of fishing in the maritime sectors of the Penzé and Dossen rivers or Morlaix River.—11 February 1961)

Until 31 Dec. 1966.

REFERENCES

- Ghana. Laws, Statutes, etc. (1961)** MF 61-09486
 Act 43 of 1961, separate publ. of 9 p. The wild animals preservation act, 1961: an act to consolidate and amend the law relating to wild animals, birds and fish and to continue the observance of the convention signed at London on the 19th day of May, 1900.—22 March 1961

Extensive provisions.

- Guatemala. Laws, Statutes, etc. (1960)** M 61-09487
Guatemalteco, (67) : 601

Decreto Núm. 1412 por el cual se establecen sanciones adecuadas a quienes, sin cumplir con los requisitos que establecen las leyes en vigor, exploten las riquezas marítimas de las aguas territoriales de la República.—7 de diciembre de 1960 (Legislative decree No. 1412, establishing adequate penalties for persons who, without complying with legal requirements, exploit the maritime resources of the territorial waters of the Republic.—7 December 1960)

Fines for owners and personnel; confiscation of catch.

- West Bengal. Laws, Statutes, etc. (1960)** M 61-09488
Calcutta Gaz., (43) : 3302-4

Resolution No. 7987/6M-6/60 constituting the West Bengal Deep Sea Fishing Board for running the deep sea fishing scheme.—22 September 1960

To look after all aspects of developments of deep sea fishing in the State of West Bengal in order to augment the supply of fish and to introduce a new industry in the country.

- Ireland. Laws, Statutes, etc. (1959)** M 61-09489
Stat. Instr. Ire., (212) : 9 p.

Imposition of duties (no. 83) (fats and oils) order, 1959.—4 December 1959

Revokes the customs duties on refined fish and marine animal oils and fats and imposes in lieu a new composite and extended duty of 50% (full) 33½% (preferential—UK and Canada) *ad valorem* on such oils and fats.

- Ireland. Laws, Statutes, etc. (1960)** M 61-09490
Stat. Instr. Ire., (3) : 3 p.

Sea fisheries act, 1952—commencement—(N.3) order, 1960.—5 January 1960

This order fixes 18 Jan. 1960, as the day on which certain statutory provisions for the regulation of sea-fishing come into operation incl. provisions for the licensing of fishing vessels exceeding the overall length of 75 feet prescribed by S.I. No. 4 of 1960.

- M
61-09491
- Ireland. Laws, Statutes, etc. (1960)**
Stat. Instr. Ire., (4) : 5 p.

Licensing of sea-fishing vessels regulations, 1960.—5 January 1960

No vessel, exceeding 75 feet over all in length, shall be used for sea-fishing except under licence.

- F
61-09492
- Ireland. Laws, Statutes, etc. (1960)**
Stat. Instr. Ire., (164) : 5 p
 Fishing weir operation (No. 4) order, 1960. 4 August 1960

Authorizes the electricity supply board to operate without a free gap the fishing weir known as Cathleen's Fall Weir, Ballyshannon, subject to the conditions specified.

- F
61-09493
- Ireland. Laws, Statutes, etc. (1961)**
Iris Oifigiúil, (19) : 271
 Foyle area (restriction of netting) regulations, 1961.—20 February 1961

Replaces the Foyle area—restriction of netting—regulations, 1953.

- F
61-09494
- Ireland. Laws, Statutes, etc. (1961)**
Iris Oifigiúil, (19) : 272
 Foyle area (Rivers Finn and Foyle) (close season for angling) regulations, 1961.—20 February 1961

Replaces the Foyle area (Rivers Finn and Foyle) (close season for angling) regulations, 1956.

- MF
61-09495
- Madagascar. Laws, Statutes, etc. (1960)**
J. off. Rép. malgache, (144) : 37-8
 Décret n° 60-486 du 8 décembre 1960 portant organisation du Ministère de l'Agriculture et du Paysannat (Decree No. 60-486 relative to the organization of the Ministry of Agriculture and Rural Population.—8 December 1960)

Consisting of: the general secretariat; the services for: agricultural extension and rural population; livestock, sea fisheries and animal industries; waters and forests and soil conservation; rural engineering and agricultural water supply—the office for rural improvement.

- MF
61-09496
- Madagascar. Laws, Statutes, etc. (1961)**
J. off. Rép. malgache, (153) : 368-9
 Décret n° 61-078 du 8 février 1961 fixant les modalités d'application de l'ordonnance n° 60-128 du 3 octobre 1960 (Decree No. 61-073 fixing conditions for the application of ordinance No. 60-128 of 3 October 1960.—8 February 1961)

Ad 61-05843. Extending to various officials competence for administering penalties for infractions of the hunting, fishing and wildlife protection legislation.

REFERENCES

Madagascar. Laws, Statutes, etc. (1961)

MF
61-09497

J. off. Rép. malgache, (154) : 393-4

Décret n° 61-088 du 16 février 1961 fixant la destination à donner aux oiseaux, animaux ou poissons saisis à la suite d'infraction à la réglementation de la pêche de la chasse et de la protection de la faune (Decree No. 61-088, providing for the disposal of birds, animals or fish, confiscated in consequence of infractions of the fishing, hunting and wildlife protection regulations.—16 February 1961)

1—Live (a) if protected spp., sent to scientific research institutes, (b) if game, freed in appropriate surroundings; 2—Dead (a) if fit for consumption, given to hospitals or prisons; (b) if unfit for human consumption, buried by the offender, safeguarding public health requirements.

Madagascar. Laws, Statutes, etc. (1961)

F
61-09498

J. off. Rép. malgache, (154) : 394

Décret n° 61-091 du 16 février 1961, réglementant les conditions d'octroi de permis scientifiques de pêche dans les eaux du domaine public ou privé d'État (Decree No. 61-091 fixing conditions governing the granting of scientific fishing permits in the waters of State-owned public or private land.—16 February 1961)

Requests shall specify the motives, the number of each sp. to be taken, the waters and methods of fishing etc.

Madagascar. Laws, Statutes, etc. (1961)

F
61-09499

J. off. Rép. malgache, (154) : 394

Décret n° 61-092 du 16 février 1961, réglementant les mesures à observer pour la protection des peuplements piscicoles en eaux libres (Decree No. 61-092 prescribing measures to be respected in order to protect fish in free waters.—16 February 1961)

Disposal of any substances and construction of any dam are subject to authorization.

Madagascar. Laws, Statutes, etc. (1961)

MF
61-09500

J. off. Rép. malgache, (154) : 394-6

Décret n° 61-093 du 16 février 1961 portant application de l'ordonnance n° 60-126 du 3 octobre fixant le régime de la chasse, de la pêche et de la protection de la faune (articles 12, 13, 17 et 22) (Decree No. 61-093 for the application of ordinance No. 60-126 of 3 October 1960, fixing regulations for hunting, fishing and wildlife protection—articles 12, 13, 17 and 22. 16 February 1961)

Ad 61-05841. Extensive regulations.

Madagascar. Laws, Statutes, etc. (1961)

F
61-09501

J. off. Rép. malgache, (154) : 396

Décret n° 61-094 du 16 février 1961 réglementant les modes et conditions d'amodiation du droit de pêche dans les eaux du domaine public ou privé de l'État (Decree No. 61-094 prescribing procedures and conditions for the leasing of fishing rights in the waters of State-owned public or private land.—16 February 1961)

- Federation of Malaya. Laws, Statutes, etc. (1960)** MF 61-09502
Fed. Malaya Govt Gaz., (29), Legislative Suppl. (59) : 594-9
 L.N. 338. Customs duties—amendment—(N.5) order, 1960 made under the customs ordinance, 1952.—22 December 1960

Amends schedule to the customs duties order, 1959, incl. *inter alia*, fish, boiled or steamed slightly salted fish, etc.

- Mexico. Laws, Statutes, etc. (1960)** MF 61-09503
Diario ofc. México, (38) : 2

Decreto que modifica la tarifa de impuesto general de exportación—ostiones en su concha, peces vivos para alimentación, ranas vivas y otros artículos—12 de julio de 1960 (Decree amending the general export tariff—unshelled oysters, live fish for food, live frogs, etc.—12 July 1960)

Incl. by enumeration of fresh, chilled or frozen sea foods. Takes effect 17 Dec. 1960.

- Morocco. Laws, Statutes, etc. (1961)** M 61-09504
Bull. off. Emp. chérif., (2522) : 285-6, 309-10

Dahir n° 1-58-106 du 15 février 1961 modifiant et complétant l'annexe I du dahir du 31 mars 1919 formant code de commerce maritime et l'article 44 de l'annexe III formant règlement sur la pêche maritime (Dahir No. 1-58-106, amending and supplementing annex I to code of maritime commerce, and annex III (art. 44) of regulations for sea fishing, of the dahir of 31 March 1919.—15 February 1961)

Defines various types of fisheries and prescribes licences required on board fishing vessels.

- Netherlands. Laws, Statutes, etc. (1960)** M 61-09505
Staatsblad Neth., text 440 : 1121

Besluit van 21 oktober 1960, houdende vaststelling van het tijdstip, waarop de wet op de walvisvangst 1960 in werking treedt (Decree fixing the coming into force of the 1960 whaling act, Stbl. 410.—21 October 1960)

At 1 Nov. 1960. Ad 61-08701.

- Netherlands. Laws, Statutes, etc. (1960)** F 61-09506
Staatsblad Neth., text 507 : 1258

Besluit van 10 november 1960 tot vaststelling van het tijdstip, waarop het koninklijk besluit van 24 augustus 1959 (Stbl. 328), houdende wijziging riviervisserijreglement en algemeen visserijreglement voor de binnenwateren in werking treedt (Decree establishing the date on which the royal decree of 24 August 1959, Stbl. 328, amending the regulation relative to river fishing and the general regulation governing fishing in inland waters will come into force.—10 November 1960)

Ad 60-4491. At 15 Nov. 1960.

REFERENCES

- MF
61-09507
- Netherlands. Laws, Statutes, etc. (1960)**
Staatscourant Neth., (240) : 2
- Besluit van 6 december 1960, houdende toepassing van artikel 73 van de wet op de bedrijfsorganisatie ten aanzien van het produktieschap voor vis en visprodukten (Decree governing the application of art. 73 of the act relative to professional organization at the products association for fish and fisheries products.—6 December 1960)
- Specifies the organizations of employers and workers qualified to send representatives to the general committee of the products association aforesaid.
- MF
61-09508
- Netherlands. Laws, Statutes, etc. (1960)**
Staatscourant Neth., (240) : 2
- Besluit van 6 december 1960, houdende toepassing van artikel 73 van de wet op de bedrijfsorganisatie ten aanzien van het visserijschap (Decree governing the application of art. 73 of the act relative to professional organizations in the cooperative fisheries associations.—6 December 1960)
- Specifies the employers and workers' organizations qualified to send representatives to the general committee of the association aforesaid.
- M
61-09509
- Netherlands. Laws, Statutes, etc. (1960)**
Staatscourant Neth., (2) : 5
- Nr. Vi. 5218/Directie van de Visserijen. Afwijking gesloten tijd botvisserij in de Zeeuwse stromen.—30 december 1960 (Order No. Vi. 5218/Directie van de Visserijen, issued by the Minister of Agriculture and Fisheries amending the close season for plaice fishing in Zeeland rivers.—30 December 1960)
- Provides for exemption until 15 Mar. 1961 of such fisheries from the ban contained in art. 24, para 1, item 1 of the regulation Stb. 164 of 1911 governing fisheries in Zeeland rivers.
- F
61-09510
- Netherlands. Laws, Statutes, etc. (1961)**
Staatsblad Neth., (13) : 39
- Besluit van 28 januari 1961, houdende uitvoering van artikel 5a, zesde en zevende lid, van de visserijwet (Stbl. 1931, 410) (Decree relative to the application of article 5a, paragraphs 6 and 7, of the fisheries act, Stbl. 410 of 1931, as last amended in Stbl. 296 of 1958.—28 January 1961)
- Specifies various organizations authorized to appoint members and deputy members of the Chamber of Inland Fisheries, for the session starting on 1 Feb. 1961.
- F
61-09511
- New Zealand. Laws, Statutes, etc. (1960)**
Stat. Rules N.Z., 1960/57 : 3 p.
- Lake Tutira (winter fishing) regulations 1960, pursuant to the fisheries act 1908.—27 April 1960
- Make provision for a winter season for fishing for trout and other acclimatized fish in Lake Tutira commencing on 1 May and ending 30 Sep. in each year, and prescribe the conditions which are to apply in that winter season.

F

61-09512

New Zealand. Laws, Statutes, etc. (1960)*Stat. Rules N.Z.*, 1960/92 : 20 p.Rotorua trout fishing regulations 1960, pursuant to the fisheries act, 1908.—
22 June 1960Consolidate with some changes the Rotorua trout fishing regulations 1951
and the amendments of those regulations. Expire with the 30 Jun. 1961.

F

61-09513

New Zealand. Laws, Statutes, etc. (1960)*Stat. Rules N.Z.*, 1960/93 : 25 p.Taupo trout fishing regulations, 1960, pursuant to the fisheries act 1908.—
22 June 1960Consolidate with amendments the Taupo trout fishing regulations 1950 as
amended. Expire with the 30 Jun. 1961.

F

61-09514

New Zealand. Laws, Statutes, etc. (1960)*Stat. Rules N.Z.*, 1960/101 : 3 p.Lakes Kowhata, Pauri and Wairua (winter season) regulations 1960,
pursuant to the fisheries act 1908.—6 July 1960Make provision for a winter season for fishing for perch and other
acclimatized fish in said lakes commencing with 1 Jun. and ending with 30 Sep.
in each year, and prescribe conditions which are to apply in that winter season.

F

61-09515

New Zealand. Laws, Statutes, etc. (1960)*Stat. Rules N.Z.*, 1960/106 : 4 p.Freshwater fisheries regulations (North Canterbury) modification notice
1960, pursuant to the fisheries act 1908.—30 June 1960Modifies the provisions of the general regulations in the North Canterbury
acclimatization district by limiting the number of salmon or trout that may
be taken in specified waters, increasing the size limit in certain waters,
restricting the lures and methods of fishing that may be used in certain waters,
etc.

F

61-09516

New Zealand. Laws, Statutes, etc. (1960)*Stat. Rules N.Z.*, 1960/102 : 3 p.Lake Rātapiko (winter season) regulations 1960, pursuant to the fisheries
act 1908.—6 July 1960Make provision for a winter season for fishing for perch and other acclimatized
fish in Lake Rātapiko commencing with 1 Jun. and ending with 30 Sep. in
each year, and prescribe the conditions which are to apply in that winter
season.

REFERENCES

New Zealand. Laws, Statutes, etc. (1960)

M
61-09517

Stat. Rules N.Z., 1960/123 : 1 p.

Seal fishery regulations, 1946, amendment No. 5, pursuant to the fisheries act 1908.—10 August 1960

Extend for a further three years the close season for the taking of seals.

New Zealand. Laws, Statutes, etc. (1960)

F
61-09518

Stat. Rules N.Z., 1960/138 : 3 p.

The Rotoaira trout fishing regulations 1959, amendment No. 1, pursuant to the Maori purposes act 1959.—7 September 1960

Ad 61-05857. Abolishes the close season in Lake Rotoaira and the part of the Pontu stream to which the principal regulations apply, provides for a new kind of entry permit, authorizes trolling in certain areas, increases the daily bag limit, etc.

New Zealand. Laws, Statutes, etc. (1960)

F
61-09519

Stat. Rules N.Z., 1960/142 : 3 p.

Freshwater fisheries regulations 1951, amendment No. 5, pursuant to the fisheries act 1908.—14 September 1960

Increases the limit bag for trout or salmon from 20 to 50, reduces the size limit for trout or salmon from 9 inches to 6, etc.

Norway. Laws, Statutes, etc. (1959)

M
61-09520

Overnsk. Fremm. St., (2) : 213-4

Overenskomst mellom den Norske Regjering og Regjeringen i Samveldet av Svojetiske Sosialistiske Republikker om framgangsmåten ved behandlingen av krav i forbindelse med skader på fiskeredskaper (Agreement between the Norwegian Government and the Government of the Soviet Socialist Republics relative to procedure in connection with claims for damage to fishing gear.—9 December 1959)

Comes into force on 1 Jan. 1960.

Norway. Laws, Statutes, etc. (1960)

MF
61-09521

Norsk Lovtid., (21) : 470-2

Lov Nr. 3 av 17. juni 1960, om bridge i lov frå 23. april 1948 (nr. 3) om Statens Fiskarbank (Act No. 3 amending the act of 23 April (No. 3) 1948, relative to the State Fisheries Bank.—17 June 1960)

The amended articles, 1, 2, 13, 14, 18, 19, 20 and 21, refer to various conditions governing the funding of and security, etc., for loans made to fisherfolk by the above bank.

M
61-09522

Norway. Laws, Statutes, etc. (1960)
Norsk Lovtid., (23) : 526

Resolusjon om opphevelse av sentraliseringen av klippfiskeeksporten til Spania (Resolution abolishing the centralization of klip-fish export to Spain.—15 July 1960)

Amends resolution of 20 Jan. 1956 governing klip-fish exports, whereby exports to Spain are no longer subject to exclusive control of the Ministry of Fisheries Export Committee for klip-fish and salt fish.

M
61-09523

Norway. Laws, Statutes, etc. (1960)
Norsk Lovtid., (26) : 571-2

Resolusjon av 2. september 1960 om endr. av § 9 i bestem. om saltvannsfiskeriene (fredningstiden for hummer) (Resolution amending art. 9 of the provisions relative to salt water fisheries—closed season for lobster fishing.—2 September 1960)

Specifies, subject to certain exceptions, the various areas and respective periods during which lobster fishing is prohibited. Comes into force immediately.

M
61-09524

Norway. Laws, Statutes, etc. (1960)
Norsk Lovtid., (33) : 686

Resolusjon av 11. november 1960 om opphevelse av sentraliseringen av eksport av saltet rogn til Spania (Resolution abolishing the official handling—through the Export Committee for salt hard roes—of exports of salt roes to Spain.—11 November 1960)

Roe exports as above may now be exported to Spain without the formalities hitherto prescribed under the earlier resolution of 31 May 1956.

M
61-09525

Norway. Laws, Statutes, etc. (1960)
Norsk Lovtid., (36) : 743

Resolusjon av 2. desember 1960 om sentralisering av eksporten av røkesild til Cuba (Resolution relative to the official handling—through the Export Committee for salt herring—of exports of smoked salt herring to Cuba.—2 December 1960)

Amends item II of the resolution of 2 Mar. 1956, as since amended, to incl. Cuba among those countries exports to which are subject to the above procedure.

M
61-09526

Peru. Laws, Statutes, etc. (1960)
Peruano, (5899) : 1

Decreto supremo N°18 por el cual se aprueba el convenio de París del 1° de octubre último sobre normas para la exportación de harina de pescado.—16 de diciembre de 1960 (Supreme decree No. 18, approving the Paris agreement of 1 October last on rules for the export of fishmeal.—16 December 1960)

For the years as from 1 Jan. 1961, annual export quota is 600,000 metric tons. Prescribes other measures regulating the fish meal industry.

REFERENCES

MF
61-09527

Philippines. Laws, Statutes, etc. (1960)
Off. Gaz. Philippines, (51) : 7763-4

H. No. 4487. Republic act No. 2691: an act to amend section 2 of Republic act numbered 2002, entitled "an act to authorize the establishment of a brackish water experimental and demonstration fish farm in the Municipality of Himamaylan, Province of Negros Occidental, appropriating funds therefor".—18 June 1960

50,000 pesos appropriated to carry into effect the purposes of act No. 2002 until 30 Jun. 1961. Thereafter necessary amount shall be incl. in the general appropriations act of each year.

F
61-09528

Poland. Laws, Statutes, etc. (1960)
Biul. Minist. Rolnictwa, (7), texts 34-44 : 96-8

Instrukcja Nr 3 Ministra Rolnictwa w sprawie bezpieczeństwa i higieny pracy w rybactwie śródlądowym prowadzonym przez jednostki resortu rolnictwa (Instruction No. 3 of the Minister of Agriculture relative to work safety and hygiene in inland fisheries under the supervision of units in the agricultural field.—5 May 1960)

M
61-09529

Poland. Laws, Statutes, etc. (1960)
Dziennik Ustaw, (3), text 14 : 29-30

Rozporządzenie Ministra Finansów z dnia 5 stycznia 1961, r. zmieniające rozporządzenie z dnia 7 sierpnia 1959 r. w sprawie poboru w formie ryczałtu podatków obrotowego i dochodowego od osób trudniących się wędzeniem ryb (Order of the Minister of Finance amending the order of 7 August 1959, Dz. U. No. 47, text 290, relative to the collection in the form of a lump sum of business turnover and income taxes in the case of fish-curers.—5 January 1961)

Ad 60-8866.

MF
61-09530

Poland. Laws, Statutes, etc. (1960)
Dziennik Ustaw, (46), text 282 : 459

Oświadczenie rządów z dnia 22 października 1960 r. dotyczące zmian wprowadzonych do niektórych artykułów konwencji w sprawie regulowania oczek sieci rybackich i wymiarów ryb, podpisanej w Londynie dnia 5 kwietnia 1946 r. (Government notice relative to amendments applied to certain articles of the convention signed at London on 5 April 1946 for the regulation of meshes of fishing nets and the size limits of fish.—22 October 1960)

Embodies the amendments adopted in May 1960 by the Permanent Commission in London.

MF
61-09531

Spain. Laws, Statutes, etc. (1961)
Bol. ofic. Estado, Spain, (36) : 2173

Resolución de la Dirección General de Montes, Caza y Pesca Fluvial por la que se disponen periodos hábiles para la pesca del salmón y de la trucha.—31 de enero de 1961 (Resolution fixing open seasons for salmon and trout fishing.—31 January 1961)

For 1961.

M

Spain. Laws, Statutes, etc. (1961)

61-09532

Bol. ofic. Estado, Spain, (33) : 1975

Orden de 1 de febrero de 1961 por la que se establece la veda de la sardina en las regiones Cantábrica y noroeste (Order fixing a closed season on sardine fishing in the Cantabrian and northwest regions.—1 February 1961)

For correction see: *Bol. ofic. Estado, Spain, (34) : 2053*. Prohibits industrial sardine fishing from 15 Feb. to 15 Apr. 1961.

M

Spain. Laws, Statutes, etc. (1961)

61-09533

Bol. ofic. Estado, Spain, (35) : 2117

Orden de 1 de febrero de 1961 por la que se modifica el artículo 16 del reglamento para la pesca con arte de almadra de 4 de julio de 1924, y los párrafos cuarto y quinto del artículo 10 de los Estatutos del Consorcio Nacional Almadradero de 14 de diciembre de 1928 (Order amending art. 16 of the regulations for drag-net fishing of 4 July 1924, art. 10, paras. 4 and 5, of the statutes of the National Drag-fishery Syndicate of 14 December 1928.—1 February 1961)

Methods of lighting fishing craft engaged in drag-net fishing.

M

Spain. Laws, Statutes, etc. (1961)

61-09534

Bol. ofic. Estado, Spain, (41) : 2538

Orden de 1 de febrero de 1961 por la que se autoriza a los patronos de pesca de gran altura para mandar buques de pesca hasta 500 toneladas (R.B.) (Order authorizing masters of deep-sea fishing vessels to command ships of up to 500 tons.—1 February 1961)

F

Spain. Laws, Statutes, etc. (1961)

61-09535

Bol. ofic. Estado, Spain, (42) : 2615

Orden de 2 de febrero de 1961 por la que se unifica provisionalmente el período de veda para la pesca del cangrejo de río en todas las aguas del territorio nacional (Order provisionally unifying the closed season on river crawfish in all national waters.—2 February 1961)

From 16 Sep.—31 May, each year. Revokes royal order of 22 Sep. 1911 and other orders in contradiction herewith.

F

Sweden. Laws, Statutes, etc. (1960)

61-09536

Svensk FörfSaml., (130-133) : 333-9

Lag Nr. 130 om fiskevårdsområden 5 maj 1960 (Act No. 130 relative to fish protection areas.—5 May 1960)

Specifies general provisions and conditions governing the areas in question, grant of fishing rights therein, compulsory contribution for the maintenance of the areas by owners of fishing rights, etc.

REFERENCES

Sweden. Laws, Statutes, etc. (1960)
Svensk FörfSaml., (130-133) : 339-40

F
 61-09537

Lag Nr. 131 angående ändring i lagen den 1 december 1950 (nr 596) om rätt till fiske.—5 maj 1960 (Act No. 131 amending act No. 596 of 1 December 1950 relative to fishing rights.—5 May 1960)

The amended articles 24, 26, 35 and 40 refer to fishing rights on jointly-owned properties, protection areas, penalties for infractions, etc.

Sweden. Laws, Statutes, etc. (1960)
Svensk FörfSaml., (130-133) : 340-1

MF
 61-09538

Lag Nr 132 angående ändrad lydelse av 3 § lagen den 27 juni 1957 (nr 390) om fiskearrenden.—5 maj 1960 (Act No. 132 amending article 3 of the act No. 390 of 27 June 1957 relative to fishing leases.—5 May 1960)

Amends article 3 providing for the grant of fishing rights for a period of not less than 5 years or for the lifetime of the lessee.

Sweden. Laws, Statutes, etc. (1960)
Svensk FörfSaml., (125-127) : 328

MF
 61-09539

Kungl. Maj:ts förordning Nr 127 om fortsatt giltighet av förordningen den 5 juni 1953 (nr 374) angående reglering av utförseln av vissa slag av fisk och skaldjur m.m.—13 maj 1960 (Royal decree No. 127 prolonging the validity of the decree No. 374 of 5 June 1953 governing exports of certain kinds of fish and crustaceans.—13 May 1960)

Sweden. Laws, Statutes, etc. (1960)
Svensk FörfSaml., (121-2) : 324

MF
 61-09540

Kungl. Maj:ts kungörelse Nr 122 om upphävande av skrivelsen den 23 december 1885 (nr 73) till länsstyrelsen i Göteborgs och Bohus län angående tillstånd för utlänningar att idka uppköp av fisk för dess exporterande såsom färsk.—13 maj 1960 (Act No. 122 repealing the notice No. 73 of 23 December 1885 to the provincial governor's office of the province of Gothenburg and Bohuslän relative to permission for aliens to conduct purchases of fresh fish for export.—13 May 1960)

The repeal applies as from 1 Jun. 1960.

Sweden. Laws, Statutes, etc. (1960)
Svensk FörfSaml., (125-127) : 327

MF
 61-09541

Kungl. Maj:ts förordning Nr 125 angående fortsatt giltighet av förordningen den 30 maj 1952 (nr 320) om viss reglering av handeln med fisk, m.m.—13 maj 1960 (Royal decree No. 125 prolonging the validity of decree No. 320 of 30 May 1952 governing trade in fish, etc.—13 May 1960)

Extended until 30 Jun. 1961.

MF

Sweden. Laws, Statutes, etc. (1960)

61-09542

Svensk FörfSaml., (125-127) : 327-8

Kungl. Maj:ts förordning Nr 126 om fortsatt giltighet av förordningen den 5 juni 1953 (nr 372) angående reglering av införseln av vissa slag av fisk och skaldjur, m.m.—13 maj 1960 (Royal decree No. 126 prolonging the validity of the decree No. 372 of 5 June 1953, governing imports of certain kinds of fish and crustaceans.—13 May 1960)

Extended until 30 Jun. 1961.

M

Sweden. Laws, Statutes, etc. (1960)

61-09543

Svensk FörfSaml., (537) : 1441-2

Kungl. Maj:ts kungörelse Nr 537 angående fiske med trål utan s. k. bobbins vid rikets västra kust.—17 augusti 1960 (Royal order No. 537 relative to fishing with trawl nets without so-called bobbins on the west coast of Sweden.—17 August 1960)

Comes into force on 1 Oct. 1960.

M

Sweden. Laws, Statutes, etc. (1960)

61-09544

Svensk FörfSaml., (547-548) : 1455-6

Kungl. Maj:ts kungörelse Nr 548 angående ändrad lydelse av 1-3 § kungörelsen den 21 november 1952 (nr 699) med vissa bestämmelser om storleken av maskor i fiskredskap av nät och om minimimått på fisk m.m.—15 september 1960 (Royal order No. 548 amending arts. 1-3 of order No. 699 of 21 November 1952 specifying certain provisions relative to the size of mesh of fishing nets and minimum dimensions of fish, etc.—15 September 1960)

The amended articles 1, 2 and 3 specify the areas in Swedish waters to which the various mesh and fish size limits respectively apply. Comes into force on 1 Nov. 1960.

M

Sweden. Laws, Statutes, etc. (1960)

61-09545

Svensk FörfSaml., (547-548) : 1453-5

Kungl. Maj:ts kungörelse Nr 547 med tillämpningsföreskrifter till lagen om fiskevårdsområden.—30 september 1960 (Royal order No. 547 specifying provisions relative to the application of the act on fisheries protection areas.—30 September 1960)

Prescribes additional data, over and above those stipulated in art. 4, para. 2, of the above act—to be contained in the statutes on fisheries protection areas, e.g. designation of area, duration of application, spp. of fish concerned, meetings of the administration, its composition, accounts, etc. Other provisions refer to records of meetings, registration of areas, settlement of disputes, etc. Comes into force on 1 Jan. 1961.

REFERENCES

Sweden. Laws, Statutes, etc. (1960)

MF
61-09546

Svensk FörfSaml., (578-579) : 1552

Kungl. Maj:ts kungörelse Nr 579 om ändrad lydelse av 8 § reglementet den 2 juni 1950 (Nr 269) för statsunderstödd utbildningsverksamhet på fiskerinäringens område.—11 november 1960 (Royal order No. 579 amending art. 8 of the regulation No. 269 for State-subsidized training activities in the fisheries industry.—11 November 1960)

Union of South Africa. Laws, Statutes, etc. (1961)

M
61-09547

Govt Gaz. S. Afr., (6620) : 14

Goewermentskennisgewing No. 126. Wet op seevisserye, 1940. Wysiging van regulasies.—3 Februarie 1961 (Government notice No. 126 to amend the regulations made under the sea fisheries act, 1940.—3 February 1961)

Minor amendment of Government notice No. 1353 of 1 Jul. 1955.

Union of South Africa. Laws, Statutes, etc. (1961)

M
61-09548

Govt Gaz. S. Afr., (6621) : 10

Goewermentskennisgewing No. R.168. Prysbeheer. Maksimum pryse van vismeel.—14 Februarie 1961 (Government notice No. R.168, relative to maximum prices of fish meal. Price control.—14 February 1961)

Repeals Government notice No. 799 of 4 May 1956.

Union of South Africa. Laws, Statutes, etc. (1961)

M
61-09549

Govt Gaz. S. Afr., (6638) : 12

Goewermentskennisgewing No. 338. Wet op seevisserye, 1940. Walvisvangseisoene vir landstasies, 1961.—24 Februarie 1961. (Government notice No. 338 pursuant to the sea fisheries act, 1940, relating to whaling seasons for land stations, 1961.—24 February 1961)

Fixes periods during which sperm whales and baleen whales, incl. minke whales, may be caught from whale catchers attached to land stations.

U.K. Laws, Statutes, etc. (1960)

MF
61-09550

Stat. Instr. U.K., (1119) : 1 p.

The Firth of Forth (prevention of pollution) (tidal waters) order, 1960.—29 June 1960

The provisions of the rivers (prevention of pollution) (Scotland) act, 1951, shall apply to the tidal waters of the Firth of Forth.

U.K. Laws, Statutes, etc. (1960)

F
61-09551

Stat. Instr. U.K., 1961, (33) : 2 p.

The Dee and Clwyd River Board (fisheries) order, 1960.—14 September 1960

Enables said board—subject to confirmation by the Minister—when making orders limiting the number of licences which may be issued in any year for fishing for salmon or trout in public waters within the River Board area with any instrument, other than rod and line, to incl. any instrument which is worked by one man only and is not worked from a boat.

- M
61-09552
- U.K. Laws, Statutes, etc. (1961)**
Stat. Instr. U.K., (542) : 4 p.
 The sea-fishing industry (fishing nets) order, 1961.—22 March 1961
 Re-enacts with amendments the order of 1956.
- M
61-09553
- U.K. Laws, Statutes, etc. (1961)**
Stat. Instr. U.K., (543) : 2 p.
 The sea-fishing industry (immature sea-fish) order, 1961.—22 March 1961
 Supersedes the sea-fishing industry, immature sea-fish, orders of 1948 and 1954. It continues the prohibition of the landing, sale or possession for sale in Great Britain of certain spp. of sea-fish below certain specified sizes.
- MF
61-09554
- U.S. Laws, Statutes, etc. (1960)**
Public Laws U.S., (86-686), 86th Congress, S. 1781 : 1 p.
 An act to facilitate cooperation between the Federal Government, Colleges and Universities, the States, and private organizations for cooperative unit programs of research and education relating to fish and wildlife, and for other purposes.—2 September 1960
- MF
61-09555
- U.S. Laws, Statutes, etc. (1960)**
Public Laws, U.S., (86-702), 86th Congress, H.R. 10598 : 2 p.
 An act to clarify certain provisions of the criminal code relating to the importation or shipment of injurious mammals, birds, amphibians, fish, and reptiles (18 U.S.C. 42 (a), 42 (b)); and relating to the transportation or receipt of wild mammals, or birds taken in violation of state, national, or foreign laws (18 U.S.C. 43), and for other purposes.—2 September 1960
- F
61-09556
- Venezuela. Laws, Statutes, etc. (1960)**
Gac. ofic. Venezuela, (26.426) : 195.974-5
 Resolución No. R.N.R.-370, por la cual se dictan restricciones al ejercicio de la pesca fluvial comercial y deportiva en el Estado Guárico.—6 de diciembre de 1960 (Resolution No. R.N.R.-370, prescribing restrictions on commercial and sporting river fishing in Guárico State.—6 December 1960)
 To protect certain spp. from extinction.
- M
61-09557
- Masaki, T. & J. Tokida (1960)**
Bull. Fac. Fish. Hokkaido, 11 (2) : 37-42
 Studies on the Melobesiioideae of Japan
 Ill. descriptions.
- M
61-09558
- Fuji, A. (1960)**
Bull. Fac. Fish. Hokkaido, 11 (2) : 43-8
 Studies on the biology of the sea urchin. 2. Size at first maturity and sexuality of two sea urchins, *Strongylocentrotus nudus* and *S. intermedius*
 Co 61-07502.

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61-09559
Bull. Fac. Fish. Hokkaido, 11 (2) : 49-57
 Studies on the biology of the sea urchin. 3. Reproductive cycle of two sea urchins, *Strongylocentrotus nudus* and *S. intermedius*, in southern Hokkaido
 Co 61-09558. Anatomical and histological study of the cycle of gonad changes throughout the year.
- Kuriyama, M., M. Takagi & K. Murata** (1960) M
61-09560
Bull. Fac. Fish. Hokkaido, 11 (2) : 58-66
 Chemical studies on marine algae. 14. On a new amino acid, "chondrine", isolated from the red alga *Chondria crassicaulis*
 Co 61-01448. Isolation and identification of "chondrine" as *l*-1-sulfoxythiazine-3-carboxylic acid.
- Arai, K.** (1960) M
61-09561
Bull. Fac. Fish. Hokkaido, 11 (2) : 67-72
 (1. Acid-soluble nucleotides in muscle of marine invertebrates. Effects of storing temperature upon the content of muscular nucleotides of some sea-shells). *Ni En*
- Ishino, M.** (1960) MF
61-09562
J. oceanogr. Soc. Japan, 16 (4) : 157-62
 (On the anomalous phenomenon caused by the dry spell in the early summer of 1958 in the tidal estuary of the River Tone). *Ni En*
 Studies of increased salinity in the estuary and the effects of this on organisms living in it.
- Yamamoto, Y.** (1960) M
61-09563
J. oceanogr. Soc. Japan, 16 (4) : 163-6
 (Chemical studies on the ocean. 86. Molybdenum content of the shallow-water deposits (1)). *Ni En*
 Contents of deposits from coastal waters of Honshu and Korea.
- Imai, Y.** (1960) M
61-09564
J. oceanogr. Soc. Japan, 16 (4) : 167-71
 (Oceanographical studies on the behaviour of chemical elements. 2. Iron and aluminium distribution in Urado Bay—on concentration of those elements in the "shiome" zone, or the tide rip). *Ni En*
- Imanishi, N.** (1960) M
61-09565
J. oceanogr. Soc. Japan, 16 (4) : 172-9
 (Studies on the inorganic chemical constituents of marine fishes. 7. On the distribution of zinc, copper and lead in *Pneumatophorus tapeinocephalus*, *Seriola quinqueradiata*, *Trachurus trachurus*, *Pneumatophorus japonicus* and *Chrysophrys major*). *Ni En*
 Proportions found in various organs of the fish.

- M
61-09566
- Takano, H.** (1960)
J. oceanogr. Soc. Japan, 16 (4) : 180-4
 Plankton diatoms in the eastern Caribbean Sea
 Descriptions of some marine pelagic diatoms collected from offshore waters Dec. 1955 to Feb. 1956.
- M
61-09567
- Komaki, Y.** (1960)
J. oceanogr. Soc. Japan, 16 (4) : 185-97
 On euphausiids collected on the second cruise of the Japanese Expedition of Deep Sea (JEDS-2)
 Ill. descriptions of *Bentheuphausia amblyops*, *Thysanopoda cornuta*, *Euphausia diomediae*, *E. pacifica*, *Thysanoëssa longipes*, and *Tessarabrachion oculatus*.
- M
61-09568
- Yamashita, H.** (1961)
Bull. Jap. Soc. sci. Fish., 27 (1) : 1-5
 (Study on the fishing efficiency of purse seine (with special reference to the purse seines operated in the western water adjacent to Kyushu)). *Ni En*
 Study of purse seine fishing with reference to relation between catch and states of nets in operation, current, and use of a fishing lamp to attract fish.
- F
61-09569
- Mizuno, N.** (1961)
Bull. Jap. Soc. sci. Fish., 27 (1) : 6-11
 (Study on the gobioid fish, "yoshinobori", *Rhinogobius similis* Gill.
 1. Comparison of life histories of three ecological types). *Ni En*
 Comparison of three ecological types: amphidromous, lacustrine, and fluvial.
- M
61-09570
- Honma, Y.** (1961)
Bull. Jap. Soc. sci. Fish., 27 (1) : 12-6
 (The histo-morphology of the endostyle and thyroid gland of the sea-lamprey, *Lampetra* (= *Entosphenus*) *japonica* (Martens)). *Ni En*
 Description of the external and internal structure of endostyle and thyroid gland.
- X
61-09571
- Kondo, Y.** (1961)
Bull. Jap. Soc. sci. Fish., 27 (1) : 17-21
 The distribution of stress on a fishing net. 3. A study on fishing net with a certain bar broken
- M
61-09572
- Egusa, S. & T. Yamamoto** (1961)
Bull. Jap. Soc. sci. Fish., 27 (1) : 22-7
 Studies on the respiration of the "kuruma" prawn *Penaeus japonicus* Bate. Burrowing behaviour, with special reference to its relation to environmental oxygen concentration
 Description of normal burrowing posture and changes in posture at differing levels of oxygen concentration.

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Bull. Jap. Soc. sci. Fish., 27 (1) : 28-33
 (Studies on the browning of fish flesh 4. Browning of sugar with certain amino acids by heat). *Ni En*
- X
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- Taxonomic descriptions of *Paralepis rissoi rissoi*, *Hymenocephalus italicus*,
Onos megalokynodon and *Schedophilus medusophagus* caught by trawl.
- M
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- Dieuzeide, R.** (1960)
Bull. Sta. Aquic. Pêche Castiglione, (10) : 61-106
 Le fond chalutable à 600 mètres par le travers de Castiglione. Le facies
 à *Isidella elongata* Esper. (The trawling grounds at 600 meters through the
 trenches of Castiglione. Facies of *Isidella elongata* Esper.)
- Taxonomic and ecological notes on *Isidella elongata* and echinoderms,
 molluscs, crustaceans, and fishes collected during experimental fishing.
- M
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- Dieuzeide, R.** (1960)
Bull. Sta. Aquic. Pêche Castiglione, (10) : 107-23
 A propos d'un *Pagellus* nouveau pour la Méditerranée: *Pagellus coupei*
 n.sp. (About a *Pagellus* new to the Mediterranean: *Pagellus coupei* n.sp.)
- Describes the sp. and compares it with Moroccan and West African spp.,
 and *P. erythrinus*.
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- Tortonese, E.** (1960)
Bull. Sta. Aquic. Pêche Castiglione, (10): 125-32
 Sur un poisson de profondeur nouveau des côtes algériennes (*EUTELICH-*
THYS leptochirus n.g., n.sp.) (About a new deep water fish from the coast
 of Algeria, *EUTELICHTHYS leptochirus* n.g., n.sp.)
- Taxonomic diagnosis.
- M
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- Massonet, R.** (1960)
Bull. Sta. Aquic. Pêche Castiglione, (10) : 135-68
 Carotenoides et vitamine A chez les invertébrés marins (Carotenoids
 and vitamin A in marine invertebrates)
- Methods of analysis, study of nature, localization and concentration, of
 pigments of various organs, role and position of these pigments.
- M
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- Erbesfeldt, F. E.** (1959)
Z. Tierpsychol., 16 : 19-25
 Der Fisch *Aspidontus taeniatus* als Nachahmer des Putzers *Labroides*
dimidiatus (The fish *Aspidontus taeniatus* imitating the cleaner fish *Labroides*
dimidiatus)
- PA 34 (3) 3826. *Aspidontus* imitates colour pattern and behaviour of
Labroides which cleans other Indo-Pacific fishes.

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Technometrics, 1 (1) : 9-19
 The analysis of life test data
- PA 34 (3) 3859. Methods for solution are described which use order statistics and examples are given.
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Amer. J. Psychol., 72 : 184-99
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- PA 34 (3) 4013. Two groups of African mouth-breeders were subjected to a series of extinction and reconditioning sessions.
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Biol. Bull., Woods Hole, 119 (3) : 357-70
 Sulfur metabolism in the lugworm, *Arenicola cristata* Stimpson
- Determination of biochemical pathway leading to taurine formation in *A. cristata* and the mechanism of taurocyamine synthesis in the organism.
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 Histological studies on the digestive system of a starfish, *Henricia*, with notes on Tiedemann's pouches in starfishes
- Conover, R. J.** (1960) M
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 The feeding behavior and respiration of some marine planktonic Crustacea
- Description of feeding behavior and of food and quantitative determination of respiration by different spp.
- Goreau, T. F. & N. I. Goreau** (1960) M
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Biol. Bull., Woods Hole, 119 (3) : 416-27
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- Co 61-06129.
- Gross, W. J. & L. A. Marshall** (1960) M
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Biol. Bull., Woods Hole, 119 (3) : 440-53
 The influence of salinity on the magnesium and water fluxes of a crab
- Gwilliam, G. F.** (1960) M
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 Neuromuscular physiology of a sessile scyphozoan

- Parker, J.** (1960) M
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Biol. Bull., Woods Hole, 119 (3) : 474-8
 Seasonal changes in cold-hardiness of *Fucus vesiculosus*
- Rogick, M. D.** (1960) M
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 Studies on marine Bryozoa—13. Two new genera and new species from Antarctica
 Co 60-3743.
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Biol. Bull., Woods Hole, 119 (3) : 550-9
 The seasonal occurrence of *Mytilus edulis* on the Carolina coast as a result of transport around Cape Hatteras
- Williams, A. B.** (1960) M
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Biol. Bull., Woods Hole, 119 (3) : 560-71
 The influence of temperature on osmotic regulation in two species of estuarine shrimps (*Penaeus*)
- Cieglewicz, W. & W. Strzyzewski** (1960) MF
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Prace morsk. Inst. ryback. Gdynia, (11B) : 9-22
 Selektowność poszczególnych części worka włoka dorszowego (Selectivity of different parts of cod-end). En Ru
 In order to investigate the selectivity of different parts of cod-end made of different material, the cod-end was covered with cover, and the free area between the cod-end and the cover was divided by the walls of netting into parts in order to determine the escape through different parts of the cod-end.
- Okoński, S. & S. Sadowski** (1960) M
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Prace morsk. Inst. ryback. Gdynia, (11B) : 23-32
 Przyrząd modelowy do wyznaczania zgrojenia latawcowego włoków (A model arrangement for the kite fitting estimation of the herring trawls). En Ru
 The instrument allows to examine new methods of the kite fitting, as well as checking and correcting purposes, by corresponding choice of lengths for the particular elements of the rigging, which within the limits of the constructional possibilities, cause the maximal vertical opening of the trawl.
- Okoński, S. & S. Sadowski** (1960) M
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 Rola nadbory i podbory w konstrukcji i eksploatacji włoka. (Headline and ground rope and their influence on the construction and exploitation of the trawl). En Ru
 Description of the possibilities to change the vertical opening of the trawl by choice of proper length of the headline, ground rope or by additional triangle at the wing end.

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61-09758
Prace morsk. Inst. ryback. Gdynia, (11B) : 45-57
Merki rybaków morskich wybrzeża Gdańskiego (Sea fishermen marks from Gdańsk coast). En Ru
Description of various marks used by fishermen for marking the gear, especially on floats.
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61-09759
Prace morsk. Inst. ryback. Gdynia, (11B) : 59-70
Projekt zasad klasyfikacji środków połowowych ze szczególnym uwzględnieniem narzędzi połowu (A classification of means of fishing, especially of the fishing gear—proposed principles). En Ru
Outlines the principles for classification of fishing gear and other means of fishing.
- Czapke, K.** (1960) MF
61-09760
Prace morsk. Inst. ryback. Gdynia, (11B) : 95-111
Badania nad możliwością otrzymania agar-agaru z wodorostów morskich występujących w polskich wodach przybrzeżnych (Investigations on the possibility of obtaining agar-agar from seaweeds appearing on the Polish coastal waters). En Ru
Results of investigation on the possibility to extract agar-agar from *Furcellaria fastigiata*, *Fucus vesiculosus* and *Zostera marina*.
- Anon.** (1960) M
61-09761
Trans. Amer. geophys. Un., 41 (4) : 629-38
Physical oceanography—Twelfth general assembly, International Union of Geodesy and Geophysics, Helsinki, Finland, July 25-August 6, 1960
Review of the business meetings and abstr. of paper presented on scientific meetings.
- Wadati, K. & K. Terada** (Ed.) (1960)* M
61-09762
Tokyo, Toky-dou, 671 p.
(Encyclopedia of the oceans). Ni
- Kamenkovich, V. M.** (1960)* M
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Izv. Akad. Nauk S.S.S.R. (Geofiz.), (1) : 9 p.
(The quasistationary property of drift currents in the ocean). Ru
- Fedorov, K. N.** (1960)* M
61-09764
Izv. Akad. Nauk S.S.S.R. (Geofiz.), (2) : 10 p.
(Seasonal variations in ocean currents). Ru

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61-09765
- Kitaigorodskii, S. A.** (1960)*
Izv. Akad. Nauk S.S.S.R. (Geofiz.), (3) : 7 p.
(On the computation of the thickness of the wind-mixing layer in the ocean). *Ru*
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Washington, Library of Congress
Measurement of waves on the surface of the sea by underwater pressure transmitters
En 61-05488. Available from the Library of Congress, Washington, D.C.
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61-09767
- Muromtsev, A. M.** (Anon. Transl.) (1960?)*
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Oceanographic information available on the Indian Ocean
En 60-9295. Available from the Library of Congress, Washington, D.C.
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Washington, Library of Congress
The role of the surface heat balance in the water temperature regime of the northern part of the Atlantic Ocean
En 59-2215. Available from the Library of Congress, Washington, D.C.
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61-09769
- Sysoev, N. N.** (1960)*
Vestn. Akad. Nauk SSSR, 30 (2) : 21-32
Okeanologicheskie issledovaniia sovetskikh uchenykh (Oceanological researches of Soviet scientists)
- M
61-09770
- Sysoyev, N. N.** (Anon. Transl.) (1960)*
Washington, Office of Technical Services
Oceanological investigations of Soviet scientists
En 61-09769. Available from the Office of Technical Services, Washington D.C.
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61-09771
- Timofeiev, V. T.** (Anon. Transl.) (1960?)*
Washington, Library of Congress
The annual water balance of the Arctic Ocean
En 1956, Timofeiev, V. T. Available from the Library of Congress, Washington, D.C.
- M
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- Zalogin, B. S. & M. S. Edel'man** (Anon. Transl.) (1960?)*
Washington, Library of Congress
Use of the bathythermograph in an arctic sea
En 60-4822. Available from the Library of Congress, Washington, D.C.

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Washington, Library of Congress
The effect of pressure topography on sea level and on vergence phenomena
En 60-4861. Available from the Library of Congress, Washington, D.C.
- M
61-09774
- Zubov, N. N.** (Anon. Transl.) (1960?)*
Washington, Library of Congress
Index of atmospheric turbulence ; the interaction of sea and atmosphere ; some features of evaporation in the sea
En 1955, Zubov, N. N. Available from the Library of Congress, Washington, D.C.
- F
61-09775
- Brien, P.** (1960)
Amer. Scient., 48 (4) : 461-77
The fresh-water *Hydra*
General review of structure and life history of *Hydra* spp.
- MF
61-09776
- Dodge, B. F.** (1960)
Amer. Scient., 48 (4) : 476-513
Fresh water from saline waters—An engineering research problem
- M
61-09777
- Blanke, W.** (1960)
Bremen, 41 p.
OEEC: Seefischerei und Aussenhandel mit Fischen und Fischwaren der assoziierten Gebiete (OEEC: marine fishery and foreign trade with fish and fishery products in the associated areas)
Description of fishery conditions, quantities of gear and boats, catches and statistical tables.
- G
61-09778
- Bleasdale, J. K. A.** (1960)
Symp. Brit. ecol. Soc., 1 : 133-42
Studies on plant competition
- MF
61-09779
- U.K. Commonwealth Agricultural Bureau** (1959)
Reading, Lampport Gilbert & Co. Ltd., 434 p.
List of research workers 1959—Research workers in agriculture, animal health and forestry in the British Commonwealth, the Republic of Sudan and the Republic of Ireland
Names and addresses of research workers, up to end of 1958, by countries and institutions, with alphabetical indexes to persons and institutions, and incl. fisheries workers in a few cases, as well as helminthologists and others who may be concerned incidentally with studies of aquatic organisms.

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61-09780
- Knauss, J. A.** (1961)
J. geophys. Res., 66 (1) : 143-55
The structure of the Pacific equatorial countercurrent
- Summary of the studies, from 1955 to 1959, of the velocity structure of the equatorial countercurrent in the eastern Pacific.
- M
61-09781
- Schooley, A. H.** (1961)
J. geophys. Res., 66 (1) : 157-62
Relationship between surface slope, average facet size, and facet flatness tolerance of a wind-disturbed water surface
- CR 60-9034. Experimental relationships are given relating wind velocity to the parameters given in the title. Photographically obtained profiles of waves in a short-fetch water-wind tunnel were used as the source of data.
- M
61-09782
- Pierson, W. J., Jr.** (1961)
J. geophys. Res., 66 (1) : 163-79
Some nonlinear properties of long-crested periodic waves with lengths near 2.44 centimeters
- Waves with lengths near 2.44 cm are studied theoretically by means of both a classical perturbation technique and a wave number perturbation analysis.
- F
61-09783
- Popovskaia, G. I.** (1960)
Izv. sib. Otd. Akad. Nauk S.S.S.R., (9) : 145-56
Fitoplankton zaliva Proval ozera Baikala (The phytoplankton of the Proval Bay in the Baikal Lake)
- Data and methods of investigations; plankton spp., seasonal dynamics of the biomass and quantity of phytoplankton; taxonomic list of seasonal occurrence.
- MF
61-09784
- Slicher, A. M.** (1961)
Bull. Bingham oceanogr. Coll., 17 (3) : 55 p.
Endocrinological and hematological studies in *Fundulus heteroclitus* (Linn.). Ru
- Occurrence of different blood cell types in the killifish, and changes of hemoglobin and red cell counts, as influenced by various factors.
- M
61-09785
- Robinson, E.** (1960)
Proc. zool. Soc. Lond., 135 (3) : 319-38
Observations on the toxoglossan gastropod *Mangelia brachystoma* (Philippi)
- Live observations of morphology, digestive and genital systems of this pleurotomatid from sand of Plymouth Sound, which, like the conids of the Pacific, is a predator which overcomes its prey with a toxic secretion.

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Duncan, C. J. (1960)

Proc. zool. Soc. Lond., 135 (3) : 339-56

The genital systems of the freshwater Basommatophora

MF

61-09786

Following comparative histological investigation of representatives of the four families of Hygrophila, Physidae, Lymnaeidae, Planorbidae and Ancyliidae, a standardized nomenclature for different parts of the female duct is proposed and homologies suggested. Reproductive systems of *Physa fontinalis*, *Lymnaea peregra*, *Planorbarius corneus* and *Ancylus fluviatilis* are described.

Craggs, J. D. & N. F. Ellison (1960)

Proc. zool. Soc. Lond., 135 (3) : 375-85

Observations on the seals of the (Welsh) Dee Estuary

M

61-09787

Monthly census of *Halichoerus grypus* and *Phoca vitulina*, 1942-57.

Purchon, R. D. (1960)

Proc. zool. Soc. Lond., 135 (3) : 431-89

The stomach in the Eulamellibranchia; stomach types 4 and 5

MF

61-09788

Internal structure and function described for representatives of 23 families. Evolution significance of differences is discussed.

Salah, M. M. (1959)

Notes hydrobiol. Dep. Minist. Agric. U.A.R., (40) : 19 p.

Phytoplankton population of the Nouzha Hydrodrome. Ar

MF

61-09789

Investigations based on quantitative record; a list of spp., is given. Productivity is very poor in comparison with Nile waters and delta lakes.

Gorgy, S. (1959)

Notes hydrobiol. Dep. Minist. Agric. U.A.R., (42) : 26 p.

The use of energy equations in the calculation of the rate of evaporation from Lake Quarân. Ar

F

61-09790

Aliverti, G., et al. (1960)

Ann. Ist. nav., Napoli, 28 : 27 p.

Dati talassografici della seconda crociera tirrenica dell'A.G.I. 1957-58 (Oceanographic data of the 2nd Tyrrhenian cruise—International Geophysical Year 1957-58). En

M

61-09791

Data of temperature, salinity and density.

M

61-09792

De Maio, A. (1959)*Ann. Ist. nav., Napoli*, 28 : 16 p.

Su alcune misure dirette di corrente eseguite nell'ottobre 1959 a bordo della corvetta 'Daino' con il metodo del paracadute (About some measurements of sea currents by means of parachute drogues, performed on board the corvette 'Daino' in October 1959). En

Introductory considerations about the surface and subsurface measurements, and results of tests performed: 1. in the Canale d'Ischia, 10 m depth; 2. at SE of the Isola dei Cavoli, 800 m and 10 m depth.

M

61-09793

De Maio, A. (1959)*Ann. Ist. nav., Napoli*, 28 : 8 p.

Sulle condizioni di stabilità dell'acqua di mare mediterranea rispetto a spostamenti verticali (On the changes of stability of the Mediterranean Sea water in a vertical direction). En

The stability of water at a station in the Tyrrhenian has been evaluated by means of the Hesselberg and Sverdrup's formula.

M

61-09794

Aliverti, G. et al. (1960)*Ann. Ist. nav., Napoli*, 28 : 32 p.

Dati talassografici della terza crociera tirrenica dell'A.G.I. 1957-58 (Talassographic data from the 3rd Tyrrhenian cruise during the IGY 1957-58). En

Data of temperature, salinity, density, oxygen and pH.

M

61-09795

Aliverti, G., M. Canò & A. De Maio (1960)*Ann. Ist. nav., Napoli*, 29 : 24 p.

Dati talassografici della quarta crociera tirrenica dell'A.G.I. 1957-58 (Thalassographic data from 4th Tyrrhenian cruise during IGY 1957-58). En

Data of temperature, salinity, density and oxygen.

M

61-09796

Aliverti, G., M. Canò & A. De Maio (1960)*Ann. Ist. nav., Napoli*, 29 : 32 p.

Dati talassografici della quinta crociera tirrenica dell'A.G.I. 1957-58 (Thalassographic data from the 5th Tyrrhenian cruise during IGY 1957-58). En

Data of temperature, salinity, density and oxygen.

F

61-09797

Schmidt, B. (1960)

München, 39 p.

Histologische Untersuchungen an der Leber von gesunden und an "infektiöser" Nierenschwellung und Leberdegeneration erkrankten Forellen (Histological investigations on the liver of healthy trout and of trout with infectious tumour of kidney and with liver degeneration)

REFERENCES

- Timmermans, J. A.** (1960) F
61-09798
Trav. Sta. Rech. Groenendaal, D (29) : 23 p.
 L'élevage de la carpe au Liban (Carp culture in Lebanon). En

Paper is based on work during an assignment in Lebanon from 24 Oct. 1957 to 6 May 1958 under the Technical Assistance Program. The material contained herein has been previously submitted to the Government of Lebanon in various reports. Information is given for raising of carp, incl. such data as grading system, fertilization, artificial feeding, productivity, use of secondary spp., and care of ponds. A description of experimental carp farm at Terbol, Bekka Valley, is given together with a three-year plan for the operation of the farm.

- Streeter, H. W. & E. B. Phelps** (1958) F
61-09799
Publ. Hlth Bull., Wash., (146) : 75 p.

A study of the pollution and natural purification of the Ohio River—3. Factors concerned in the phenomena of oxidation and re-aeration.

Theoretical discussion and experimental data on oxygen balance of the river.

- Runemark, H.** (1960) M
61-09800
Bot. Notiser, 113 (4) : 459-61

Algfloran på Grollegrund i norra Öresund (Algal flora on the Grollegrund in northern Öresund)

Lists of seaweeds on the ground.

- Currier, A., W. D. Kitts & I. McT. Cowan** (1960) F
61-09801
Canad. J. Zool., 38 (6) : 1109-16
 Cellulose digestion in the beaver (*Castor canadensis*)

Indigestible markers added to the feed and artificial caeca were used as techniques in the determination of cellulose digestion. The ability of the experimental animals to digest cellulose ranged from 32 to 33%

- Lewis, J. B.** (1960) M
61-09802
Canad. J. Zool., 38 (6) : 1133-45

The coral reefs and coral communities of Barbados, W.I.

Actively growing, fringing coral reefs are developed along the western coast of Barbados. The form of these reefs, from the shore to depths of about 30 meters, is described. *Montastrea annularis* is the dominant shallow water sp. while *Madracis asperula* is dominant beyond depths of 10 meters. The development of the reefs in terms of coral growth is described.

Wiggins, G. B. (1960)

F

61-09803

Canad. J. Zool., 38 (6) : 1153-70

A preliminary systematic study of the North American larvae of the caddis-fly family Phryganeidae (Trichoptera)

Larvae are described for 13 spp., incl. 5 not previously known. Progress is made in giving broader biological significance to the generic groupings. A key to 7 of the 8 North American genera is provided, along with keys to the known larvae of the genera *Agrypnia* and *Banksiola*. The general distribution of each sp. treated is summarized.

de Wit, J. J. D. (1960)

F

61-09804

Canad. J. Zool., 38 (6) : 1171-3

Hybridization experiments in rhodeine fishes (Cyprinidae, Teleostei)—The intergeneric hybrids of *Acheilognathus lanceolata* ♀ × *Acanthorhodeus atremius* ♂ and *Tanakia tanago* ♀ × *Acheilognathus rhombea* ♂

Experimental evidence is presented for the occurrence of a dominant genetic factor in *A. rhombea* males, which controls the duration of embryonic development in this and other bitterling spp.

France. Comité Central d'Océanographie et d'Étude des Côtes (1961)

M

61-09805

Cah. océanogr., 13 (1) : 1-59

Co 61-07262. Contains 61-09806 to 61-09809.

Lacombe, H. (1961)

M

61-09806

Cah. océanogr., 13 (1) : 9-13

Mesures de courant à 100 mètres de profondeur à l'ouest de la côte espagnole (Cap Finistère) (Measurements of current at 1000 meters depth west of the Spanish coast, Cape Finisterre)

Rotschi, H. (1961)

M

61-09807

Cah. océanogr., 13 (1) : 14-31

Sur certaines propriétés chimiques des eaux équatoriales et tropicales du Pacifique—Caractères généraux de la distribution de l'oxygène dissous (About certain chemical properties of the equatorial and tropical Pacific—General characters of the distribution of the dissolved oxygen)

Poncet, J. (1961)

M

61-09808

Cah. océanogr., 13 (1) : 32-7

Existence de "formes festonnées" pré littorales en certains points de la côte algérienne—Mise en évidence de "courants d'arrachement" (Existence of "festoon forms" in certain points of the Algerian coast—Indication of "lifting currents")

Description of forms, their relation with coast, explanation of their existence.

REFERENCES

- Anon.** (1961) M
61-09809
Cah. océanogr., 13 (1) : 47-58
Résultat d'observations (Results of observations)

Tables of data on temperatures and salinity collected from Pointe-Noire to Douala, West Africa, by the 'Ombango'.

- Green, J.** (1960) F
61-09810
Proc. zool. Soc. Lond., 135 (4) : 491-523
Zooplankton of the River Sokoto; the Rotifera

41 spp. are recorded from the river in north Nigeria, and details of seasonal abundance given.

- Fretter, V.** (1960) M
61-09811
Proc. zool. Soc. Lond., 135 (4) : 537-49
Observations on the tectibranch *Ringicula buccinea* (Brocchi)

Specimens dredged from muddy sand at St. Jean-de-Luz. Discussion of the animal's structure confirms its position as a primitive form specialized for burrowing and also shows affinities with the basommatophoran pulmonates.

- Barrington, E. J. W.** (1960) F
61-09812
Proc. zool. Soc. Lond., 135 (4) : 551-8
Some features of the vascularization of the hypothalamus and pituitary stalk in the minnow *Phoxinus phoxinus* L.

Anatomy of specimens from lake Windermere.

- Fryer, G.** (1960) F
61-09813
Proc. zool. Soc. Lond., 135 (4) : 569-78
Some controversial aspects of speciation of African cichlid fishes

Distinction made between intralacustrine speciation shown by some groups and simple specific proliferation shown by others. Former phenomenon is exhibited by several genera but hardly at all by *Tilapia*. Consideration of the effects of predation supports the idea that it has accelerated speciation. If certain conditions are fulfilled, closely related spp. can co-exist throughout life in one habitat, eat the same kind of food and breed in close proximity.

- Scheffer, V. B.** (1960) M
61-09814
Proc. zool. Soc. Lond., 135 (4) : 579-85
Dentition of the ribbon seal

Ci 583713. Dental formula of *Histriophoca fasciata* which lives among the drift-ice floes of Okhotsk, Bering and Chuckchee Seas.

F

Green, J. (1960)

61-09815

Proc. zool. Soc. Lond., 135 (4) : 613-8Zooplankton of the River Sokoto—The freshwater medusa *Limnocyda*

Ci 61-09810. Found from Dec. 1956 to Apr. 1957 in a pool which becomes separated from the main channel of the River Sokoto during the dry season. Medusae are described and importance of number and size of statocysts as a systematic character within the genus is discussed. Map shows distribution of *Limnocyda* in Africa.

F

Affleck, R. J. (1960)

61-09816

Proc. zool. Soc. Lond., 135 (4) : 631-7

Notes on the breeding of the domesticated grey guppy *Lebistes reticulatus* (Peters)

Broods are usually small owing to cannibalism by parent and other fish before the swim-bladders of the fry are inflated. When cannibalism is eliminated by confining each female in a maternity cage, the number of fry in the brood is a linear function of the total length of the female.

F

Mackiewicz, J. S. (1960)

61-09817

Thesis, Cornell Univ., U.S., 406 p.

Studies on the Caryophyllaeidae (Cestoidea) of *Catostomus commersoni* (Lacépède), with emphasis on those from fish near Ithaca, New York, (Tompkins County), U.S.A.

DA 21 (11) : 3566-7.

F

Rhoades, R. (1960)

61-09818

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Salzgehalt, Temperatur und Seston in der Kieler Förde 1956 and 1957.
(Salinity, temperature and seston in Kiel Fjord 1956 and 1957). En

During the period Jun. 1956 to Jan. 1958 seawater samples from Tonne C and Möltenort in Kiel Fjord were examined for salinity and content of particulate matter—seston.

MF

Bock, K. J. (1960)

61-09920

Kieler Meeresforsch., 16 (1) : 57-68

Biologische Untersuchungen, insbesondere der Ciliatenfauna, in der durch Abwässer belasteten Schlei (westliche Ostsee) (Biological investigations, especially of the ciliate fauna in the polluted water of the Schlei Fjord—western Baltic). En

Particular stress is laid on the present distribution of ciliates which, under the influence of the various factors such as the nature of the bottom, salinity, eutrophic state, density of bacteria, present a good picture of the prevailing pollution condition.

M

Hartmann-Schröder, G. (1960)

61-09921

Kieler Meeresforsch., 16 (1) : 69-125

Polychaeten aus dem Roten Meer (Polychaetes from the Red Sea)

Taxonomic list and description of numerous collected spp.

MF

Simonsen, R. (1960)

61-09922

Kieler Meeresforsch., 16 (1) : 126-30

Neue Diatomeen aus der Ostsee—2. (New diatoms from the Baltic Sea—2.). En

New spp. of the genera *Achnanthes*, *Navicula*, *Amphora*, *Hantzschia* and *Nitzschia* and a new genus *HUSTEDTIELLA*, are described.

M

Furuya, M. (1959)

61-09923

Bol. Inst. oceanogr., S. Paulo, 10 (3) : 3-10

O teor de matéria graxa de manjuba (*Anchoviella hubbsi* Hildebrand) do rio Ribeira de Iguape (Fat content of anchovy, *Anchoviella hubbsi* Hildebrand, of Ribeira de Iguape River). En

Fat content studies in relation to time and place of the catch, and variations within samples.

M

Futuya, M. (1959)

61-09924

Bol. Inst. oceanogr., S. Paulo, 10 (3) : 21-3

Variação sazonal do teor de matéria graxa em sardinha verdadeira (*Sardinella aurita*)—Nota preliminar (Seasonal variation of fat content in the sardine, *Sardinella aurita*—Preliminary note)

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Bull. S. Calif. Acad. Sci., 59 (2) : 103-20 61-09926
 Winds over coastal southern California

Description of land and sea breeze and its diurnal and seasonal variations.

- Zilliox, R. G.** (1960) F
Canad. Fish Cult., (28) : 3-12 61-09927
 The use of rotenone for management of New York trout waters

Reviews program, methods and successes.

- Prevost, G.** (1960) F
Canad. Fish Cult., (28) : 13-25 61-09928
 Use of fish toxicants in the Province of Quebec

Evaluates several fish toxicants.

- Stringer, G. E. & R. G. McMynn** (1960) F
Canad. Fish Cult., (28) : 37-44 61-09929
 Three years' use of toxaphene as a fish toxicant in British Columbia

Reviews effects of toxaphene on fish and other fauna.

- McCrimmon, H. R.** (1960) F
Canad. Fish Cult., (28) : 45-55 61-09930
 Observations on the standing trout populations and experimental plantings in two Ontario streams

- Einsele, W.** (Rawson, D. S. Transl.) (1960) F
Canad. Fish Cult., (28) : 57-60 61-09931
 Fisheries management development projects

Brief account of fisheries management projects in Austria.

- Ropelewski, A.** (1960) MF
Prace morsk. Inst. ryback. Gdynia, 10B : 5-13 61-09932
 Trzydziestopieciolecie polskich badań na morzu (Thirty-five years of Poland's exploration of the sea). En

M

Strzyżewski, W. & J. Zaucha (1960)

61-09933

Prace morsk. Inst. ryback. Gdynia, 10B : 51-70

Rozciągliwość oczek sieciowych (Elongation of net meshes). En Ru

Measurements of the changes in mesh size as a function of force stretching the mesh. Dry and wet nets manufactured from sisal, manila, rami and steelon were measured.

MF

Stachowski, J. (1960)

61-09934

Prace morsk. Inst. ryback. Gdynia, 10B : 73-85

Skład chemiczny stynki, jazgarza i uklei zalewu Szczecińskiego w latach 1955-1956 (The chemical composition of the smelt, pope and bleak in the Szczecin Firth in 1955-1956). En Ru

Monthly chemical analyses of different size groups of smelt, *Osmerus eperlanus*, pope, *Acerina cernua*, and bleak, *Alburnus alburnus*.

MF

Tarlach, M. (1960)

61-09935

Prace morsk. Inst. ryback. Gdynia, 10B : 87-110

Wpływ mikroflory na spadek wytrzymałości przedzt rybackiej—Cz. 1. Porównanie metod oceny spadku wytrzymałości przedzy rybackiej w środowisku wodnym (The influence of microflora on the loss of strength of the fishing yarn—Part 1. The comparison of the estimation method). En Ru

MF

Łaszczyński, S. (1960)

61-09936

Prace morsk. Inst. ryback. Gdynia, 10B : 127-68

Zagadnienie sprawozdawczości eksploatacyjnej w rybołówstwie kutrowym Bałtyku (Exploitation statistics on the Baltic cutter fisheries). En Ru

Presents problem of collecting statistics of cutter catches, with a proposal of system of statistics adopted to the cutter catches on the Baltic based on the analysis of cutter log-books.

M

Orłowski, J. (1960)

61-09937

Prace morsk. Inst. ryback. Gdynia, 10B : 169-207

Wydajność połowów pławnicowych i włokowych lugrotrawlerów na morzu północnym w latach 1953-1955 (Productivity of the drift-net and trawl catches of drifter-trawlers on the North Sea in 1953-1955). En Ru

Results of detailed analyses of drifter-trawler catches performed on the North Sea in the years 1953-55.

MF

Noetzel, B. (1960)

61-09938

Prace morsk. Inst. ryback. Gdynia, 10B : 209-34

Wybrane zagadnienia z metodologii planowania połowów w polskim rybołówstwie morskim (Selected problems on the methodology of planning of catches in the Polish sea fisheries). En Ru

Discussion on the factors affecting the productive yield of fishing vessels as an indicator.

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- F
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 Cincinnati, 9 p.
 Illustrated flow chart to certain groups of chironomid larvae
 An ill. key to common spp. and general of North America.
- F
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Dokl. Akad. Nauk S.S.S.R., 130 (1) : 210-3
 O vliianii etilendiamintetraatsetata (EDTA) na koeffitsienty nakopleniia razlichnykh radioaktivnykh izotopov iz vodnogo rastvora presnovodnymi rasteniiami (Effect of ethylenediaminetetraacetate (EDTA) on the coefficients of accumulation of different radioactive isotopes from an aqueous solution by freshwater plants)
- F
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Dokl. Akad. Nauk S.S.S.R., 130 (4) : 883-6
 Gistokhimiia gistidina v gladkikh myshtsakh bespozvonochnykh i pozvonochnykh zhivotnykh (The histochemistry of histidine in the smooth muscles of invertebrate and vertebrate animals)
- F
- Timofeeva-Resovskaia, E. A. & N. V. Timofeev-Resovskii** (1960) 61-09944
Dokl. Akad. Nauk S.S.S.R. (En Transl. biol. Sci. Sec.), 130 (1-6) : 9-11
 Effect of ethylenediaminetetraacetate (EDTA) on the coefficients of accumulation of different radioactive isotopes from an aqueous solution by freshwater plants
En 61-09942. Experiments on *Lemna*, *Elodea*, *Chara* and *Ceratophyllum* with S_{35} , F_{59} , Co_{60} , Zn_{65} , Sr_{90} , Y_{91} , Zr_{95} , Nb_{95} , Ru_{106} , Cs_{137} , Ce_{144} .
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 Effect of ethylenediaminetetraacetate on the accumulation of different radioisotopes from an aqueous solution, by leeches and gnats
En 60-7457. Experiments on *Herpobdella* and *Culex* larvae with S_{35} , Fe_{59} , Co_{60} , Zn_{65} , Sr_{90} , Y_{91} , Zr_{95} , Nb_{95} , Ru_{106} , Cs_{137} , and Ce_{144} .

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 Rate of fat accumulation in the Azov anchovy (*Engraulis encrasicolus* Maeticus)

En 60-7458. Correlation with food supply, determines nature of fatness-age relation.

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61-09947
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En 60-7611. Experiments 1958-59 at Don River Delta factory, on *Acipenser güldenstädti*, *A. stellatus* and *Huso huso*.

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61-09948
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 The peroxidase reaction and the formation of hemoglobin during the embryonic development of sturgeon

En 60-7365. Rearing experiments with "osetr" and "ship" at Kurinskii Experimental Fish Farm.

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61-09949
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Dokl. Akad. Nauk S.S.S.R. (En Transl. biol. Sci. Sec.), 130 (1-6) : 82-4
 Chemical regulation of the morphogenesis of hydroid polyps

En 60-7364. Experiments with *Campanularia*, *Clava* and *Coryne* at White Sea Biological Station of Moscow University, Jun.-Aug. 1959.

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61-09950
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 The histochemistry of histidine in the smooth muscles of invertebrate and vertebrate animals

En 61-09943. Experimental material incl. *Anodonta* and *Hirudo*.

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 The yellow perch of lake Erie

Popular account giving some catch, age and growth, and life history data.

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Fish. Bull., Haifa, 3 (6) : 8-12
 (On the dynamics of population of *Mullus barbatus* L. in the Mediterranean waters of Israel (1946-1959)). *Iw En*
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 (Purse-seining with lights during the year 1960). *Iw En*
- Ci 61-00445. Catches and size distributions in east Mediterranean of *Sardinella aurita* and also *Pneumatophorus japonicus* and young *Euthynnus alletteratus*.
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- Question whether fishery activities can deplete the fish stock is discussed. Two examples of populations regulated by factors other than fishing activities are given. One is *Acanthobrama terrae-sanctae* which spawns in its second year, and the other is that of *Tilapia galilea*, which in Lake Tiberias spawns when two years old. Two ways of increasing the fishery yield are discussed. First is by increasing the size classes of the catch; the second is the introduction of new spp. which will occupy a new ecological niche and utilize the natural food which is in abundance. Suggested introductions are *Mullus cephalus* and large mouth " buffalo ".
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SOR/61-82. Order in council P.C. 1961-300 amending the Prince Edward Island fishery regulations made under the fisheries act.—2 March 1961

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Canada. Laws, Statutes, etc. (1961)
Can. Gazette (II), (6) : 304

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SOR/61-83. Order in council P.C. 1961-301 amending the British Columbia fishery regulations made under the fisheries act.—2 March 1961

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Can. Gazette (II), (6) : 388

SOR/61-95. Order in council P.C. 1961-341 made under the deep sea fisheries act relative to distribution of grant 1960-61.—9 March 1961

Authorizes payment out of the consolidated revenue fund of a grant of \$160,000 for the purposes of the act.

M

Canada. Laws, Statutes, etc. (1961)

61-09998

Can. Gazette (II), (6) : 401

DORS/61-95. Arrêté C.P. 1961-341 en vertu de la loi sur les pêches maritimes relatif à la distribution de la subvention pour l'année 1960-1961.—9 mars 1961 (SOR/61-95. Order in council P.C. 1961-341 made under the deep sea fisheries act relative to distribution of grant 1960-61.—9 March 1961)

Fr 61-09997.

MF

Canada. Laws, Statutes, etc. (1961)

61-09999

Can. Gazette (II), (7) : 407-8

SOR/61-102. Order in council P.C. 1961-374 amending the canned fish and shellfish and cannery inspection regulations made under the meat and canned foods act.—16 March 1961

Various amendments providing *inter alia* that before cans are hermetically sealed, adequate measures shall be taken to insure a vacuum of at least 4 inches (Mercury) after the cans have been processed and cooled.

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Canada. Laws, Statutes, etc. (1961)

Can. Gazette (II), (7) : 422-3

DORS/61-102. Arrêté C.P. 1961-374 modifiant le règlement visant l'inspection des conserveries et des conserves de poisson, mollusques et crustacés en vertu de la loi sur les viandes et conserves alimentaires.—16 mars 1961 (SOR/61-102. Order in council P.C. 1961-374 amending the canned fish and shellfish and cannery inspection regulations made under the meat and canned foods act.—16 March 1961)

Fr 61-09999.

MF

61-10000

Canada. Laws, Statutes, etc. (1961)

Can. Gazette (II), (7) : 409

SOR/61-103. Order in council P.C. 1961-375 amending the British Columbia Fishery regulations made under the fisheries act.—16 March 1961

Insertion of a new section 15 B to provide that for the fishing season ending 10 Mar. 1961 only, a quantity of herring exceeding the limit for the central subdistrict by 5000 tons may be taken if that quantity is taken in those waters of the central subdistrict described in areas 7, 8, 9 and 10 of schedule A.

M

61-10001

Canada. Laws, Statutes, etc. (1961)

Can. Gazette (II), (7) : 424

DORS/61-103. Arrêté C.P. 1961-375 modifiant le règlement de pêche de la Colombie-Britannique en vertu de la loi sur les pêcheries.—16 mars 1961 (SOR/61-103. Order in council P.C. 1961-375 amending the British Columbia fishery regulations made under the fisheries act.—16 March 1961)

Fr 61-10001.

M

61-10002

Canada. Laws, Statutes, etc. (1961)

Can. Gazette (II), (7) : 410-1

SOR/61-104. Order in council P.C. 1961-376 to amend the northwest territories fishery regulations made under the fisheries act.—16 March 1961

The amendments concern commercial gill nets licences.

MF

61-10003

Canada. Laws, Statutes, etc. (1961)

Can. Gazette (II), (7) : 425-6

DORS/61-014. Arrêté C.P. 1961-376 modifiant le règlement de pêche des territoires du nord-ouest en vertu de la loi sur les pêcheries.—16 mars 1961 (SOR/61-104. Order in council P.C. 1961-376 to amend the northwest territories fishery regulations made under the fisheries act.—16 March 1961)

Fr 61-10003.

MF

61-10004

- M
61-10005
- Ceylon. Laws, Statutes, etc. (1961)**
Ceylon Govt Gaz., (12,338), Pt. 1, sect. 1, general : 373-4
 L.D.-B. 33/57. Weligama fishing regulations, 1961, made under the fisheries ordinance, No. 24 of 1940, as amended.—28 March 1961

Prohibits the use of any device other than rod and line and cast net in the respectively specified areas.

- M
61-10006
- Ceylon. Laws, Statutes, etc. (1961)**
Ceylon Govt Gaz., (12,337), Pt. 1, sect. 1, general: 370 G & 370H
 Food price order No. C. 307 relative to dried fish and dried prawns, pursuant to the control of prices act, No. 29 of 1950.—6 April 1961

Fixes the importer's maximum wholesale and retail prices, etc.

- M
61-10007
- Ceylon. Laws, Statutes, etc. (1961)**
Ceylon Govt Gaz., (12,342), Pt. 1, sect. 1, general : 399-401
 Food price order No. C. 309 relative to dried fish and dried prawns pursuant to the control of prices act, No. 29 of 1950.—11 April 1961

Ad 61-10006. Fixes importer's maximum wholesale and retail prices and prescribes various other sales regulations. Revokes food price order No. 307 of 6 April 1961.

- M
61-10008
- Ceylon. Laws, Statutes, etc. (1961)**
Ceylon Govt Gaz., (12,343), Pt. 1, sect. 1, general : 402 G
 Food price order No. C. 310 relative to dried fish and dried prawns pursuant to the control of prices act, No. 29 of 1950.—12 April 1961

Weekly returns shall be furnished by importers and wholesale traders.

- MF
61-10009
- France. Laws, Statutes, etc. (1961)**
J. off. Rép. franç., (75) : 3145

Arrêté du 16 mars 1961 fixant les conditions de vérification des mailles des filets et des engins (Order fixing the conditions of verification of the mesh of nets and of fishing tackle.—16 March 1961)

Pursuant to article 14 of the order of 16 Sep. 1958, as amended, relative to river fishing.

- M
61-10010
- Italy. Laws, Statutes, etc. (1960)**
Gazz. uff. Italy, (9) : 142-3

Decreto del Presidente della Repubblica, n. 1638 del 25 settembre 1960. Proroga della durata dell'osservatorio pesca marittima di Venezia per il periodo di dieci anni (Decree No. 1638 of the President of the Republic extending the duration of activity of the Maritime Fisheries Observatory in Venice for a period of ten years.—25 September 1960)

Extends such duration for 10 years as from 1 Jul. 1960 for which purpose the Ministry of Agriculture and Forests makes an annual grant to the observatory of 320,000 lire.

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Netherlands. Laws, Statutes, etc. (1961)
Staatscourant. Neth., (41) : 7

23 februari 1961/Nr. Vi. 326/Directie van de Visserijen ontheffing gesloten tijd voor zeelt (Order No. Vi. 326/Directive v.d. Visserijen issued by the Minister of Agriculture and Fisheries exempting tench from the closed fisheries season.—23 February 1961)

F
61-10012

Netherlands. Laws, Statutes, etc. (1961)
Staatscourant. Neth., (60) : 13

23 maart 1961/nr. Vi. 935/Directie van de Visserij. Vaststelling bijdragen verbetering binnenvisserij (Order No. Vi 935/Directive v.d. Visserij issued by the Minister of Agriculture and Fisheries establishing the contributions payable for the improvement of inland fisheries.—23 March 1961)

From 1 Jun. 1961 to 31 May 1962.

MF
61-10013

Netherlands. Laws, Statutes, etc. (1961)
Staatscourant. Neth., (69) : 14

Besluit aanwijzing organisaties voor benoeming bestuursleden bedrijfsschap voor de Groothandel in vis en aanverwante bedrijven (Decree specifying the organizations appointing members of the board of the cooperative association for trade in fish and other similar trades.—6 April 1961)

MF
61-10014

Norway. Laws, Statutes, etc. (1960)
Norsk Lovtid., (1) : 8–9, Jan. 1961

Resolusjon om endr. av resolusjon av 31. mai 1956 om eksporten av saltet rogn (Resolution amending the resolution of 31 May 1956 relative to the export of salt roe.—22 December 1960)

Provides that sales of salt roe and negotiations relative thereto with the Peoples Democracies (U.S.S.R., China, Poland, etc.), and as regards certain roes, also Japan, may be conducted only through the Export Association for Salt Roe established by the Norwegian Ministry of Fisheries.

M
61-10015

Norway. Laws, Statutes, etc. (1961)
Norsk Lovtid., (2) : 22

Resolusjon om endr. i. res. av 22. des. 1955 om bestemmelser om saltvannsfiskeriene (Resolution amending the resolution of 22 December 1955 relative to provisions governing saltwater fisheries.—6 January 1961)

Amends art. 11, para. 3 permitting the use of nets of smaller mesh than prescribed in paras. 1 and 2 provided that they are used only for catching the fish specified, and that other provisions respecting fish of less than minimum permitted dimensions in other latitudes than that indicated, are observed.

M
61-10016

Norway. Laws, Statutes, etc. (1961)
Norsk Lovtid., (3) : 29

Resolusjon om utvidelse av lovbeskyttelsen for Norges råfisklag til å omfatte lyr (Royal resolution extending the provisions of the resolution of 14 December 1951 governing Norwegian Raw Fish Association to include pollack.—13 January 1961)

MF

Philippines. Laws, Statutes, etc. (1960)

61-10017

Off. Gaz. Philippines, (6) : 1025

Fisheries administrative order No. 61, amending subsection (D) and revoking subsection (E) of section 4 of the revised fisheries administrative order No. 60.—12 December 1960

Relates to increase or decrease of area granted for reasons of public interest.

F

Poland. Laws, Statutes, etc. (1960)

61-10018

Biul. Minist. Rolnictwa, (10) : 141, text 69

Zarządzenie Nr 105 Ministra Rolnictwa z dnia 26 lipca 1960 roku w sprawie powołania straży rybackiej w państwowych gospodarstwach rybackich (Decision No. 105 of the Minister of Agriculture relative to the organisation of wardens supervising fisheries in State fisheries undertakings.—26 July 1960)

Accompanied by a directive.

M

Portugal. Laws, Statutes, etc. (1960)

61-10019

Bol. ofic. Cabo Verde, (47) : 830

Portaria n. 17 985 do Ministério do Ultramar: O § único do n.º 13.º da portaria, n.º 17 181, de 23 de maio de 1959, que criou o Centro de Biologia Piscatória, será substituído por quatro novos parágrafos (Order No. 17985 of the Ministry for Overseas Territories replacing by four new paragraphs the single paragraph of No. 13 of the order No. 17181 of 23 May 1959, establishing the Fisheries Biology Centre.—6 October 1960)

Ad 60-2948. Specifies the duties of the Director of the Centre, etc.

F

Southern Rhodesia. Laws, Statutes, etc. (1961)

61-10020

S. Rhodesia Govt Gaz., suppl., (11) : 1 p.

S.R. Government notice No. 106 of 1961 relating to fish conservation: declaration of Kariba controlled fishing area

Under section 6 of the fish conservation act 1960 (Act 44/60).

F

Poland. Laws, Statutes, etc. (1961)

61-10021

Dziennik Ustaw, (5), text 33 : 52-5

Ustawa z dnia 31 stycznia 1961 r.o. ochronie wód przed zanieczyszczeniem (Act relative to the protection of waters against pollution.—31 January 1961)

1: general provisions. 2: building enlargement and conversion of plants discharging spent water. 3: licences. 4: arrangements for joint water protection. 5: supervision. 6: penal provisions. 7: temporary and final provisions. Repeals the provisions contained in the waters act of 19 Sep. 1922, *Dziennik Ustaw*, (62) of 1928, text 574, as since amended, referring to such protection and various articles of other measures.

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61-10022
Fed. Govt Gaz. Rhodesia, suppl., (16) : 560-3
Federal government notice No. 121 relating to control of goods (import)
open general licence, 1961, made under act 12/54

Replaces order, No. 2, of 1960 and extends open general licence treatment to certain commodities of Japanese origin, and to goods originating in the countries listed. Such goods incl. fish, fish pastes, etc.

- Sweden. Laws, Statutes, etc.** (1960) MF
61-10023
Svensk FörfSaml., (708-709) : 1883

Lag Nr 708 angående ändrad lydelse av 4 och 6 §§ lagenden 1 december 1950 (Nr 599) om ersättning för mistad fiskerätt m.m. (Act No. 708 amending article 4 and 6 of the act No. 599 of 1 December 1950 relative to compensation for forfeited fishing rights, etc.—16 December 1960)

Amends arts. 4 and 6 of the earlier act which provide for official compensation to applicants in cases for retention of fishing rights.

- Sweden. Laws, Statutes, etc.** (1960) MF
61-10024
Svensk FörfSaml., (727) : 1921-33

Kungl. Maj:ts kungörelse Nr 727 angående skydd för djurlivet å vissa platser (Royal order No. 727 relative to the protection of animal life in certain localities.—16 December 1960)

Specifies certain provisions banning hunting, shooting, fishing, etc., in the provinces of Stockholm, Södermanland, Östergötland, Jönköping, Kalmar, Götland, Blekinge, Kristianstad, Malmöhus, Halland, Älvsborg, Värmland, Örebro, Kopparberg, Gävleborg, Västernorrland, Jämtland and Norrbotten.

- Tunisia. Laws, Statutes, etc.** (1961) M
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J. off. Rép. tunis., (104) : 537

Arrêté du Secrétaire d'Etat à l'Industrie et aux Transports du 8 avril 1961, relatif à la protection des madragues pour la campagne de pêche au thon, de l'année 1961 (Order relative to the protection of madragues for the 1961 tunny fishing season.—8 April 1961)

Prohibits fishing by drag-nets, slip-nets, etc., in specified waters from 15 Apr.—31 Jul. 1961.

- Rosa, H., Jr. & G. Murphy (Ed.)** (1960) MG
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Rome, FAO, 54 p.

Proceedings of the World Scientific Meeting on the Biology of Sardines and Related Species, held in Rome, 14-21 September 1959, Rome, Italy. Vol. 1—Report

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Es 61-10026.
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61-10032
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M

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 Informe al Gobierno de Chile sobre la pesca en aguas continentales en la región de los lagos (Report to the Government of Chile on the fisheries in inland waters in the lakes region)
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 Appendage regeneration in *Eupagurus*; experiments on specimens from Cornwall.

Elder, H. Y. & D. J. Garrod (1961)

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Blanc, M. (1961)

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Hillaby, J. (1961)

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New Scient., 11 (250): 536-8

Conservation in Africa: a crucial conference

Leaders of new Africa will be meeting at Arusha, Tanganyika, to discuss the role of African natural resources—fauna, flora, soil and water—and their research, conservation and development.

USPHS. Division of Water Supply & Pollution Control (1961)

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Reports findings of water analyses from 75 water sampling stations for strontium 90 and beta and alpha activity.

Rostami, I. (1961)

MF
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Thesis Univ. of Paris

Biologie et exploitation des acipenséridés caspiens (Biology and exploitation of Caspian Acipenseridae)

General review of systematics, geographical distribution, biology, migrations, fishing and fishculture of Acipenseridae, particularly of Caspian basin—*Huso huso* (L.), *Acipenser güldenstädti* Bor., *A. stellatus* n. *cyrensis* Berg., *A. nudiiventris* Lov. and *A. ruthenus* L.

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Incl. a spp. list of diatoms and other algae in (a) the plankton (b) the mud surface and (c) the floating scum. The Wheatfen waters are tidal and atypical compared with other broadland waters.

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The dynamics of flow on a submarine ridge
- The equations of motion are developed in a form appropriate to flow parallel to a uniformly sloping bottom. Some cases of two-layer flow are considered in which the flow is concentrated in the lower layer, as in the overflow over a submarine ridge.
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The numerical calculation of wind effect on sea level elevations
- An iteration method has been developed which uses finite differences for calculating water level elevation and water transport. The equations of motion were integrated over the depth and transformed into an implicit difference equation system. Two main cases were calculated, and in one instance the water levels were checked with the real ones in the Baltic.
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Radiocarbon concentration in Pacific Ocean water
- Results of C¹⁴ determinations in the surface and deep water in the Pacific.
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Lofotfisket 1960 (Lofoten fishery 1960)
- Weekly reports on proceeding of the fishery gear and its wear, participation catches and weather and sea conditions during the fishery season.
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The theoretical and practical study of natural insect populations
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Sci. Amer., 203 (4) : 98-110
The rift in the ocean floor
- Article discusses and ill. rifts in mid-Atlantic Ridge and the Indian Ocean Ridge; seismic, topographic and geomorphological characteristics of these areas.

- Grundfest, H.** (1960)
Sci. Amer., 203 (4) : 115-24
 Electric fishes

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Reviews occurrence of electric organs in 500 spp. of fishes, compares characteristics of *Torpedo* and other electric rays, Mormyridae and electric eels. Theories of function of electric organs based on physiological and histological studies. Nervous and other control of discharge, and its biological significance.

- Stong, C. L.** (1960)
Sci. Amer., 203 (4) : 185-96
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Describes and ill. in detail construction of hydrophone for \$10 U.S., according to a design of F. Watlington, and remarks on the principle of the instrument and the sounds made by marine organisms.

- Thompson, S. H. & D. W. Erickson** (1960)
Stat. Dig. U.S. Fish Wildl. Serv., (45) : 88 p.
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Mem. Fac. Fish. Hokkaido, 7 (1-2) : 1-60

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A comparative study of the chromosomes in decapods, isopods and amphipods, with some remarks on cytotaxonomy and sex-determination in the Crustacea

Comparative morphology of chromosomes in 33 spp. of decapods.

- Spain. Instituto de Investigaciones Pesqueras** (n.d. 1960)
 138 p.

MF
 61-11140

Cuarta reunión sobre "Productividad del mar y explotación pesquera" en la sede central del Instituto (Barcelona) durante los días 10 a 14 de octubre de 1960 (Fourth meeting on the "Productivity of the sea and fisheries exploitation" in the headquarters of the Institute, Barcelona, from 10 to 14 October 1960)

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- Bas Peired, C.** (1960)
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In 61-11140 : 4-7
 Avances y problemas técnicos en el estudio del plancton y de la hidrografía
 (Progress and technical problems in the study of plankton and hydrography)
- Vives Galmés, F.** (1960) MF
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 Proyecto de estudio planetónico-hidrográfico de la zona de la desembocadura
 del Río Ebro (Planktonic-hydrographic project of study of the zone of the
 mouth of River Ebro)
- Muñoz Sardón, F.** (1960) M
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In 61-11140 : 13-5
 El análisis químico en la diferenciación de las especies *Merluccius merluccius*
 y *Merluccius senegalensis* (Chemical analysis in the differentiation of the
 species *Merluccius merluccius* and *M. senegalensis*)
- Arté Gratacós, P.** (1960) M
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In 61-11140 : 16-9
 Cuestiones técnicas relacionadas con el mantenimiento de animales en
 acuario (Technical questions of maintenance of animals in aquarium)
- Herrera Berbis, J.** (1960) M
61-11146
In 61-11140 : 20-2
 Disminución de la salinidad y fosfatos disueltos en aguas de Castellón,
 durante el periodo 1956-1960 (Decrease of salinity and dissolved phosphates
 in waters of Castellon during 1956-1960)
- Margalef López, R.** (1960) M
61-11147
In 61-11140 : 23-5
 Mecanismo de fertilización de las aguas costeras de Castellón (Mechanism
 of fertilization in coastal waters of Castellon)
- Camps Mestres, J., J. Selga Serra & E. Arias Serrano** (1960) M
61-11148
In 61-11140 : 26-8
 Determinación del carbono orgánico en el agua de mar; datos sobre las
 costas de Castellón (Determination of organic carbon in sea water; data on
 the coast of Castellon)
- Fraga Rodríguez, F.** (1960) M
61-11149
In 61-11140 : 29-31
 La materia orgánica nitrogenada inerte disuelta en el agua de mar (In-
 active organic matter nitrogenated dissolved in sea water)
- López Benito, M.** (1960) M
61-11150
In 61-11140 : 32-4
 Estudio de la composición química de los fangos de la Ría de Vigo (Study
 of the chemical composition of the mud of the Loch of Vigo)

- Muñoz Sardón, F.** (1960) M
61-11151
In 61-11140 : 35-7
 Fitoplankton en el Golfo de Cádiz (Phytoplankton in the Gulf of Cadiz)
- López Gómez, J. J.** (1960) M
61-11152
In 61-11140 : 38-9
 Variabilidad morfológica en las poblaciones de *Ceratium* (Morphological variability in populations of *Ceratium*)
- Margalef López, R.** (1960) M
61-11153
In 61-11140 : 40-2
 Los pigmentos vegetales en el estudio de la sucesión (Plant pigments in the study of succession)
- Vives Galmés, F.** (1960) MF
61-11154
In 61-11140 : 43-50
 Sobre los indicadores biológicos en la Ría de Vigo y los posibles intercambios de agua con el océano (On the biological indicators in the Loch of Vigo and possible exchanges of water with the ocean)
- Camps Mestres, J., E. Arias Serrano & J. Selga Serra** (1960) M
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In 61-11140 : 51-4
 Determinación de quitina en el zooplancton (Determination of chitin in zooplankton)
- Sáiz Martínez, F.** (1960) M
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In 61-11140 : 55-7
 Composición química del alga *Bifurcaria tuberculata* (Chemical composition of the algae *Bifurcaria tuberculata*)
- Seoane Camba, J.** (1960) M
61-11157
In 61-11140 : 58-60
 Nota sobre la distribución de algas en el litoral de Cádiz (Note on the distribution of algae in the littoral of Cadiz)
- López Benito, M.** (1960) M
61-11158
In 61-11140 : 61-3
 Composición química del *Lithothamnion calcareum* (Chemical composition of *Lithothamnion calcareum*)
- Sáiz, Martínez, F.** (1960) M
61-11159
In 61-11140 : 64-6
 Discusión de los métodos de análisis de hidratos de carbono en las algas (Discussion of methods of analysis of carbon hydrates in algae)

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In 61-11140 : 67-70
 Los pigmentos de las arenas de las playas en relación con la producción marisquera (The sand pigments of the beaches in relation with mollusc production)
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In 61-11140 : 71-3
 Retención de partículas orgánicas por el mejillón en los viveros flotantes (Retention of organic particles by the edible mussel in floating ponds)
- M
- López Gómez, J. J.** (1960) 61-11162
In 61-11140 : 74-7
 Fase pelágica del salmonete, en relación con las vedas de arrastre (Pelagic phase of the red mullet in relation with trawling regulations)
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- Rodríguez-Roda, J.** (1960) 61-11163
In 61-11140 : 78-81
 Estudios sobre la edad y crecimiento del atún, *Thunnus thynnus* (L.) de Barbate (Age and growth studies of *Thunnus thynnus* (L.) of Barbate)
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- Figueras Monfort, A.** (1960) 61-11164
In 61-11140 : 82-6
 Aplicación del estudio de los otolitos a la determinación de la edad y crecimiento del bacalao (Application of otoliths study on the determination of age and growth of the cod)
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In 61-11140 : 87-8
 Talla media de la sardina desembarcada en Castellón (Average size of the sardine landed in Castellon)
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In 61-11140 : 89-90
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- Bas Peired, C.** (1960) 61-11167
In 61-11140 : 91-4
 Variación en la pesca de crustaceos de fondo (Variations in the bottom crustacean fisheries)
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In 61-11140 : 95-100
 Sobre las pruebas de selectividad en los artes de arrastre (On the selectivity trials of trawlers)

- Gómez Larrañeta, M.** (1960) M
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In 61-11140 : 101-3
 Riesgo de la sobrepesca (Risks of overfishing)
- Suau Abraham, P. & J. J. López Gómez** (1960) M
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In 61-11140 : 104-5
 Distribución del esfuerzo y procedencia de los desembarcos efectuados por la flota de Luz de Castellón (Distribution of effort and origin of landings of the fleet of Luz de Castellon)
- Zariquiey Alvarez, R.** (1960) M
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In 61-11140 : 106-9
 Instrucciones para la recolección y conservación de los crustaceos decapodos en aguas mediterraneas (Instructions for collection and preservation of decapod crustaceans in Mediterranean waters)
- Figueras Monfort, A.** (1960) M
61-11172
In 61-11140 : 110-4
 Consideraciones sobre la edad y crecimiento de *Cardium edule* L. (Considerations on age and growth of *Cardium edule* L.)
- Andreu Morera, B.** (1960) M
61-11173
In 61-11140 : 115-9
 Dispersión de *Mytilicola intestinalis* Steuer en el mejillón de cultivo a flote de las rías de Arosa y Vigo (NW de España) (Dispersion of *Mytilicola intestinalis* Steuer in the edible mussel of floating culture of the lochs of Arosa and Vigo, NW of Spain)
- Morales Seguí, E.** (1960) M
61-11174
In 61-11140 : 120-3
 Sobre la maduración sexual de las hembras de *Eledone cirrhosa* (Lamarck) (On the sexual maturity of females of *Eledone cirrhosa* (Lamarck))
- Andreu Morera, B.** (1960) M
61-11175
In 61-11140 : 124-7
 Actividades del laboratorio de Vigo en relación con el cultivo de la ostra (Activities of the Vigo laboratory on oyster culture)
- Establier Torregrosa, R.** (1960) M
61-11176
In 61-11140 : 128-30
 Contenido en grasa y vitamina A, del bofe (ciegos pilóricos) del atún *Thunnus thynnus* (L.) (Fat and vitamin A content of the lung, piloric calca, of the tuna, *Thunnus thynnus* (L.))

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- Rubió Lois, M.** (1960)
In 61-11140 : 131-2
 Sobre la formación de un diccionario de artes de pesca en seis idiomas
 (On the preparation of a fishing gear dictionary in six languages)
- M
61-11178
- Suau Abraham, P.** (1960)
In 61-11140 : 133-5
 Sobre la influencia de las ecosondas en la pesca con artes de luz (On the influence of the echosounders in light fishing)
- M
61-11179
- Herrera Berbis, J.** (1960)
In 61-11140 : 136-8
 Participación del Instituto de Investigaciones Pesqueras en el III Consejo Económico Sindical de Castellón (Participation of the Fisheries Research Institute in the 3rd Syndical Economic Council of Castellon)
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61-11180
- Ziegelmeier, E.** (U.K. MAFF Transl.) (1960)
 Fish. Lab., Lowestoft, mimeo, 25 p.
 Observations on the acquisition of food by the naticid *Lunatia nitida* Donovan (Gastropoda Prosobranchia)
En 1954, Ziegelmeier, E.
- M
61-11181
- Van Campen, W. G.** (1960)
Res. Rep. U.S. Fish Serv., (52) : 29 p.
 Japanese summer fishery for albacore (*Germo alalunga*)
 Important fishery carried on by fleet of live-bait tuna boats in spring and early summer in the northwestern Pacific is described. Historical background of fishery; and its production compared with other Japanese albacore fisheries and with the US west coast fishery. Seasonal trends in landings, geographical distribution of bases and fishing grounds, and the marketing and utilization of the catch are discussed. Fishery is shown to be largest in world for this sp. although still subsidiary to Japanese skipjack fishery, and largely dependent on foreign markets.
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61-11182
- Gennesseaux, M.** (1960)
Trav. Cent. Rech. Étud. océanogr., 3 (4) : 5-16
 L'oxygène, les phosphates, et les nitrates dissous dans les eaux du bassin sud-ouest de la Méditerranée occidentale (des îles Baléares à Gibraltar)
 (Dissolved oxygen, phosphates and nitrates in the waters of the southwest basin of the western Mediterranean—from the Balearic Islands to Gibraltar)

Anon. (1960)M
61-11183*Trav. Cent. Rech. Étud. océanogr.*, 3 (4) : 17-22

Stations hydrologiques effectuées par le 'Passeur du Printemps' dans le cadre des travaux de l'anné Géophysique Internationale (Hydrological stations by the 'Passeur du Printemps' within the plan of work of the International Geophysical Year)

Tabulated results of determinations of dissolved oxygen, phosphates and of nitrates-nitrites.

Genesseeaux-Denamur, J. (1960)M
61-11184*Trav. Cent. Rech. Étud. océanogr.*, 3 (4) : 23-30

Remarques sur l'eau de surface dans le bassin sud-ouest de la Méditerranée occidentale (des îles Baléares à Gibraltar) (Observations on surface water of the south-west basin of the western Mediterranean—from Balearic Islands to Gibraltar)

Study of the surface film of waters between the Balearic Islands, Spanish and North African coasts, during summer.

Romanovsky, V. (1960)M
61-11185*Trav. Cent. Rech. Étud. océanogr.*, 3 (4) : 31-7

Les courants dans le détroit de Bonifacio (Currents in the Strait of Bonifacio)

Observations on water exchange between the Tyrrhenian Sea and west Mediterranean.

Leenhardt, O. (1960)M
61-11186*Trav. Cent. Rech. Étud. océanogr.*, 3 (4) : 39-42

Sur des échos sonores enregistrés par la Marine nationale près de Toulon (On echoes registered by the National Navy near Toulon)

Theoretical explanation of strange echoes caused by submarine explosions in shallow water.

Sitarz, J. A. (1960)M
61-11187*Trav. Cent. Rech. Étud. océanogr.*, 3 (4) : 43-62

Côtes africaines—Étude des profils d'équilibre de plage (African coasts—Study of profiles of shore balance)

A study of shore movements caused by swells.

Ljungberg, O. (1960)MF
61-11188*Medd. Vandringsfiskntr.*, (10) : 17 p.

Furunkulos och andra fisksjukdomar i England och Skottland (Furunculosis and other fish diseases in England and Scotland)

A review of the occurrence of investigations and control of fish diseases, with emphasis on salmon and trout diseases.

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61-11189
ICNAF Newslett., (37) : 4 p.
 Co 61-09003.
- Fey, F.** (1960) M
61-11190
Naturwissenschaften, 47 (24) : 604
 Cytochemische Untersuchungen an Selachier-Blutzellen (Cytochemical investigations on selachin blood-cells)
 Determination of cytochemical reactions of the blood-cell types.
- Hahn, G.** (1960) F
61-11191
Naturwissenschaften, 47 (24) : 611
 Fernstastsinn und Strömungssinn beim augenlosen Höhlenfisch *Anoptichthys jordani* Hubbs und Innes im Vergleich zu einigen anderen Teleosteen (Distance sense and current sense in eyeless cavefish *Anoptichthys jordani* Hubbs and Innes compared to some other teleosts)
- Strotzkoetter, E.** (1960) F
61-11192
Naturwissenschaften, 47 (24) : 611-2
 Rezeption hydrostatischer Drucke bei Fischen und ihre Mitwirkung an der Orientierung im Raum (Reception of hydrostatic pressure by fishes and its influence on the orientation in space)
 Interpretation of some aquarium tests.
- Frankel, J.** (1960) F
61-11193
J. exp. Zool., 143 (2) : 175-91
 Effects of localized damage on morphogenesis and cell division in a ciliate, *Glaucocoma chattoni*
 Studies morphogenetic consequences of localized damage inflicted at known times on the oral areas of individual cells and the effect of damage on the processes leading to the subsequent cell division.
- Spangenberg, D. B.** (1960) F
61-11194
J. exp. Zool., 143 (2) : 195-201
 The epidermal nerve net of *Hydra*
 Gives an improved method of staining nerves in *H. littoralis* with methylene blue and discusses morphology of nerve cells and organization of epidermal nerve network as demonstrated by this method.
- Anon.** (1960) M
61-11195
France pêche, 5 (46) : 37-8
 Fiche technique du bar (Fishery cards on sea perch)
 Detachable cards, ill., giving biology habitat, fishing, catch, commercial use of *Morone labrax*.

Priol, E. (1960)M
61-11196*France pêche*, 5 (46) : 39-41

Océanographie et pêche (Oceanography and fisheries)

Article on contribution of oceanographic studies to improvement of fishing methods and location of fish.

Timmermans, J. A. (1960)F
61-11197*Trav. Sta. Rech. Groenendaal*, D (28) : 36 p.

Observations concernant les populations de truite commune (*Salmo trutta fario* L.) dans les eaux courantes (Observations concerning the trout populations, *Salmo trutta fario* L., in Belgian waters). En De Ne

Marking problem is discussed, fin-clipping as well as tagging. Homing behaviour, estimation of natural mortality. Relation between weight and length and growth of marked fishes in natural populations. Problem of legal size and exploitation by angling was examined. Four results of the most recent fish-inventories are given in tabular form.

Sievers, H. C. (n.d. 1960?)M
61-11198

9 p.

Operación oceanográfica 'Marchile I', misión cumplida (Oceanographic operation 'Marchile I', mission accomplished)

Describes expedition area surveyed off the coast of Chile, and preliminary results.

**Philippines. National Institute of Science & Technology—
National Science Development Board** (1960)MF
61-11199*Ser. Philipp. sci. Bibliogr.*, (2)

Radioactive isotopes

Fully indexed bibliography of 500 papers published from 1957 to 1959 in 82 periodicals. Of use for research in hydrology, zoology, etc.

**Philippines. National Institute of Science & Technology—
National Science Development Board** (1961?)*MF
61-11200*Ser. Philipp. sci. Bibliogr.*, (5)

Algae of the Philippines

Stewart, R. K. (1960)F
61-11201

10 p.

Investigation and chemical rehabilitation of Deerfield Reservoir, South Dakota, 1959

Account of pre-rehabilitation study, chemical rehabilitation of lake, and subsequent stocking.

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Anon. (n.d.) F
61-11202
Madison, mimeo, 6 p.
Screening of compounds for agricultural chemical use

Document outlines methods currently employed by Wisconsin Alumni Research Foundation commercially to test compounds for activity as algacidal agents, using *Chlorella* as test organism.

AAAS (1960) MF
61-11203
Baltimore, Horn-Shafer Co., 299 p.

General program of the eighth New York Meeting—The 127th meeting of the Association. The annual meeting for the year 1960

No 60-191me.

ICNAF (1960) M
61-11204
Statist. Bull. ICNAF, 8 (1958) : 69 p.

In two parts: Fishery in the Convention Area in 1958; Statistics for 1958 of landings of groundfish—round fresh weight—and effort, by spp., gears and sub-areas and countries; corrections and amendments to statistics published in earlier volumes; appendix gives Italian landings for 1958.

Challenger Society (1960) MF
61-11205
Rep. Challenger Soc., 3 (12) : 33 p.

List of officers and workers of the society, with addresses, administrative and financial report, abstr. of papers read at joint meetings. Contains 61-11206 to 61-11230.

Le Cren, E. D. (1960) F
61-11206
Rep. Challenger Soc., 3 (12) : 19
The survival of trout fry in streams

Abstr. of paper read at joint meeting with the Windermere Laboratory of the Freshwater Biological Association, the Ferry House, Ambleside, 6 and 7 May 1959.

Kipling, C. (1960) MF
61-11207
Rep. Challenger Soc., 3 (12) : 19
A technique for the assessment of growth in fish

Abstr. of paper read at joint meeting with the Windermere Laboratory of the Freshwater Biological Association, the Ferry House, Ambleside, 6 and 7 May 1959.

- F
61-11 208
- Collins, V. G.** (1960)
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- Macan, T. T.** (1960)
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- Jones, B. W.** (1960)
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 On the biology of the clam *Mya arenaria*
 Abstr. of paper read at joint meeting with the Fisheries Experimental Station, Conway, 28 and 29 Oct. 1959.
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- Millar, R. H.** (1960)
Rep. Challenger Soc., 3 (12) : 23-4
 A field experiment with oysters in Scotland
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 Escallops and starfish
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Rep. Challenger Soc., 3 (12) : 26
 Population studies on the whelk (*Buccinum undatum*)
 Abstr. of paper read at joint meeting with the Fisheries Experimental Station, Conway, 28 and 29 Oct. 1959.
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Rep. Challenger Soc., 3 (12) : 27
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 Abstr. of paper read at joint meeting with the Fisheries Experimental Station, Conway, 28 and 29 Oct. 1959.
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- Butcher, R. W.** (1960)
Rep. Challenger Soc., 3 (12) : 27
 Some problems in the taxonomy of coloured flagellates
 Abstr. of paper read at joint meeting with the Fisheries Experimental Station, Conway, 28 and 29 Oct. 1959.

Haq, S. M. (1960)M
61-11221*Rep. Challenger Soc.*, 3 (12) : 28Dimorphic males and some aspects of the biology of *Euterpina acutifrons* Dana

Abstr. of paper read at joint meeting with the Fisheries Experimental Station, Conway, 28 and 29 Oct. 1959.

Walne, P. R. (1960)MF
61-11222*Rep. Challenger Soc.*, 3 (12) : 28

Experiments on the large scale culture of oyster larvae

Abstr. of paper read at joint meeting with the Fisheries Experimental Station, Conway, 28 and 29 Oct. 1959.

Ballantine, W. J. & J. E. Morton (1960)M
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Some intertidal patterns in shelter and exposure in the southern Bay of Biscay

Do 60-034me.

Newell, R. (1960)M
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Barnes, H. (1960)M
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Do 60-034me.

Costlow, J. D. (1960)M
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The effect of temperature and salinity on the development of Crustacea larvae

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Surveys of a small area of the English Channel off Plymouth

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 Problems of humpback whale migration in the Pacific Ocean
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- Williamson, M. H.** (1960) M
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 The detection of associations of planktonic species
 Do 60-034me.
- Howell Rivero, L.** (1958) M
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 La Habana, mimeo, 9 p.
 Recursos del mar—Informe de situación (Marine resources—Situation report)
 Paper presented to the 1st national symposium of the "Natural Resources of Cuba", 3-14 Feb. 1958. Review of resources, and facilities for research, and recommendations for their better exploitation and investigation.
- Howell Rivero, L.** (1958) M
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 Recursos del mar—La oceanografía y biología marina como ciencias en la determinación de la potencialidad de los recursos marinos (Marine resources—Oceanography and marine biology as sciences for determination of potentialities of marine resources)
 Paper presented to the 1st national symposium on the "Natural Resources of Cuba", 3-14 Feb. 1958. An essay on the subject with special reference to Cuba.
- Sánchez Roig, M. & F. Gómez de la Maza** (1958) M
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 La Habana, mimeo, 12 p.
 Los recursos naturales renovables en el mar cubano—Sus principales producciones. Redimiento actual y posible aumento. La utilización de los subproductos. Medidas de conservación (The natural renewable resources in the Cuban Sea—Main production, present yield and possible increase, utilization of subproducts, measures of conservation)
 Paper presented to the 1st national symposium of the "Natural Resources of Cuba", 3-14 Feb. 1958.

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Suárez Caabro, J. A. (1958)

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La Habana, mimeo, 13 p.

Recursos del mar—Estado actual de las investigaciones sobre el plancton marino en Cuba (Marine resources—Present status of the investigations of marine plankton of Cuba)

Paper presented to the 1st national symposium of the "Natural Resources of Cuba", 3-14 Feb. 1958. Reviews the value and objectives of plankton research in Cuba.

F

Sánchez Roig, M. (1958)

61-11235

La Habana, mimeo, 13 p.

La pesca cubana en agua dulce (Freshwater Cuban fisheries)

Paper presented to the 1st national symposium of the "Natural Resources of Cuba", 3-14 Feb. 1958. Potentialities of development in Cuba compared with developments in other countries.

M

Howell Rivero, L. (1958)

61-11236

La Habana, mimeo, 7 p.

La industria pesquera en Cuba (Fisheries industry in Cuba)

Paper presented to the 1st national symposium of the "Natural Resources of Cuba", 3-14 Feb. 1958. Review of fisheries development and potentialities in Cuba.

M

Cuba. Instituto Nacional de Pesca (1958)

61-11237

La Habana, mimeo, 4 p.

La terminal pesquera de Cuba (The fisheries terminal of Cuba)

Paper presented to the 1st national symposium of the "Natural Resources of Cuba", 3-14 Feb. 1958. Discussion of a project for construction of a fisheries terminal.

M

Palomera, I. (1958)

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La Habana, mimeo, 3 p.

Datos sobre el desarrollo de la pesca del bonito en Cuba y su industrialización (Data on the development of the bonito fishery in Cuba and its industrialization)

Paper presented to the 1st national symposium of the "Natural Resources of Cuba", 3-14 Feb. 1958. Short review of the fisheries.

M

Díaz-Piferrer, M. (1958)

61-11239

La Habana, mimeo, 8 p.

Las algas marinas como factor de importancia al considerar los recursos naturales de Cuba (Marine algae as an important aspect of the natural renewable resources of Cuba)

Paper presented to the 1st national symposium of the "Natural Resources of Cuba", 3-14 Feb. 1958. A report on studies being developed and enumeration of spp. surveyed.

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La Habana, mimeo, 20 p.
Importancia nutricional de las algas marinas de Cuba (Nutritional value of the marine algae of Cuba)

Paper presented to the 1st national symposium of the "Natural Resources of Cuba", 3-14 Feb. 1958. Report on nutritional value of *Ulva fasciata*, *Enteromorpha lingulata*, and *Gracilaria* spp., and other Cuban algae, research under development and recommendations for future investigations.

- Cuba. Laboratorios FIN de Nutrición** (1958) M
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La Habana, mimeo, 21 p.

El estudio del valor nutritivo de los recursos alimenticios del mar y su importancia para Cuba (The study of the nutritive value of the edible resources of the sea and its importance for Cuba)

Paper presented to the 1st national symposium of the "Natural Resources of Cuba", 3-14 Feb. 1958. Review of present activities and project for future studies.

- Einarsson, H. & N. Görtürk** (1960) M
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Hidrobiol., Istanbul, "B" (1-2) : 72-94

Abundance and distribution of eggs and larvae of the anchovy (*Engraulis encrasicolus ponticus*) in the Black Sea (Results of the 'Pektas' expedition)

Describes survey made to collect information on the extent of spawning grounds and main spawning centers. Gives notes on possibility of exploiting anchovy stocks on spawning grounds.

- Fernández Crehuet, R. & M. J. del Val Cordón** (1960) M
61-11243
Bol. Inst. esp. Oceanogr., (98) : 29 p.

Observaciones oceanográficas en la bahía de Málaga (Marzo 1955 a marzo 1957) (Oceanographic observations in the Bay of Malaga—March 1955 to March 1957)

Observations of temperatures, salinity, oxygen, phosphates and nitrates.

- Mauchline, J.** (1958) M
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Proc. roy. Soc. Edinb., 67B (1) : 32-41

The circulatory system of the crustacean euphausiid, *Meganyctiphanes norvegica* (M. Sars)

- Bull, C.** (1958) F
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Proc. roy. Soc. Edinb., 67B (1) : 42-53

A gravity survey of a glacier-dammed lake in north Greenland

Survey of lake in Dronning Louise Land. Values of the acceleration measured at about 230 points on the lake and its shores. From differences, depths of water under the lake stations are calculated, and a contour map of the lake bottom is drawn.

M

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Mauchline, J. (1960)*Proc. roy. Soc. Edinb.*, 67B (2) : 141-79The biology of the euphausiid crustacean, *Meganyctiphanes norvegica* (M. Sars)

Analysis of winter and summer vertical migrations given and differences in behaviour pointed out. Four potential methods of feeding were found. Relationship of carapace length to total length found to depend on state of maturity. Distribution within Clyde Sea described. Annual periodicity of luminescence is described and correlated with the period of swarming.

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Mero, J. L. (1960)*Sci. Amer.*, 203 (6) : 64-72

Minerals on the ocean floor

Proposals for their exploitation.

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Summarizes data from applications of five different herbicides on farm ponds over a three-year period.

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Loeb, H. A. (1959)*N.Y. Fish Game J.*, 6 (1) : 114-6

Temperature-controlled aquarium tanks

Describes assembly.

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Tarzwel, C. M. (1958)*Industr. Wastes*, March-Apr. : 5 p.

Disposal of toxic wastes

Reviews work done on bioassay and its application in the disposal of toxic industrial wastes.

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Hardy, E. (1961)*Salm. Trout Mag.*, (161) : 32-40

Seals and salmon

General discussion of effect of grey seal on salmon fishery.

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Campbell, R. N. (1961)*Salm. Trout Mag.*, (161) : 47-52

The growth of brown trout in acid and alkaline waters

Compares growth of brown trout in several highland lochs with range of alkalinities.

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Birmingham University (1960)

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Birmingham, 137 p.

Thirty-first annual report (session 1959-1960) of the University Research Committee

Incl. account of work in Department of Zoology and Comparative Physiology, on: neural system of *Raja*; adhesive organs and genitalia of amphitellid parasites of 5 spp. of electric rays from Atlantic, Pacific and Mediterranean; monogean gill parasites of elasmobranchs.

Brown, A. W. A. et al. (1961)

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Bull. ent. Res., 51 (4) : 789-801

Insecticidal operations against chironomid midges along the Blue Nile

Kamshilov, M. M. (1960)

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Dokl. Akad. Nauk SSSR (En Transl. biol. Sci. Sec.), 131 (1-6) : 277-9

Size of ctenophore *Beroe cucumis* Fabr. in relation to its feeding

En 60-9855. Food in the ctenophore *Bolinopsis infundibulum* on Murman coast.

Nebol'sina, T. K. (1960)

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Dokl. Akad. Nauk SSSR (En Transl. biol. Sci. Sec.), 131 (1-6) : 291-2

The infection of yearlings of Caspian Clupeidae of the genus *Alosa* by the monogenetic trematode *Mazocreas alosa*

En 60-7295.

Florova, L. K. (1960)

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Dokl. Akad. Nauk SSSR (En Transl. biol. Sci. Sec.), 131 (1-6) : 307-8

Effect of cobalt on the morphological blood picture in the carp

En 60-9856. Leucocyte and erythrocytes counts, and haemoglobin concentration in *Cyprinus carpio* in aquaria.

Lukin, E. I. & V. M. Epshtein (1960)

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Dokl. Akad. Nauk SSSR (En Transl. biol. Sci. Sec.), 131 (1-6) : 318-20

Endemic Baikal leeches of the family Glossiphoniidae

En 61-02652. Taxonomy and evolution.

Ponomarenko, V. P. (1960)

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Dokl. Akad. Nauk SSSR (En Transl. biol. Sci. Sec.), 131 (1-6) : 321-4

Features of cod migration during 1954-1958 in relation to hydrological changes in south Barents Sea from tagging data

En 60-1294. Refers also to catches of capelin and of feeding cod.

- Cholnoky, B. J.** (1960) F
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Hydrobiologia, 16 (3) : 229-87
 Beiträge zur Kenntnis der Ökologie der Diatomeen in dem Swartkops-Bache nahe Port Elizabeth (Südost-Kaapland) (Contributions to the knowledge of the diatom ecology in the Swartkops-River near Port Elizabeth—South-east Kaapland)
- Efford, I. E.** (1960) MF
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Hydrobiologia, 16 (3) : 288-92
 A method of studying the vertical distribution of the bottom fauna in shallow waters
- Schwarz, S.** (1960) MF
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Hydrobiologia, 16 (3) : 293-300
 Zur Crustaceenfauna der Brackwasser-gebiete Rügens und des Darss (*Acartia tonsa*, *Caligus lacustris*, *Microdeutopus gryllotalpa*) (On the crustacean fauna in the brackish waters around Rügen and the Darss—*Acartia tonsa*, *Caligus lacustris*, *Microdeutopus gryllotalpa*)
- Pourriot, R.** (1960) F
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Hydrobiologia, 16 (4) : 309-22
 Recherches sur la biologie du rotifère *Eosphora najas* Ehrenberg (Investigations on the biology of the rotifer *Eosphora najas* Ehrenberg). En
 Study on feeding habits and breeding habits.
- Cpbpen, R. H. & H. M. Pillot** (1960) F
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Hydrobiologia, 16 (4) : 323-56
 The larvae of Corixidae and an attempt to key the last larval instar of the Dutch species (Hem., Heteroptera)
- Serfaty, A. & R. Labat** (1960) F
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Hydrobiologia, 16 (4) : 357-63
 Le facteur pression et les réactions cardiaques chez les poissons téléostéens d'eau douce (The pression factor and the cardiac reactions in freshwater teleost fishes)
- Yamamoto, K.** (1960) F
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Hydrobiologia, 16 (4) : 364-411
 Plankton Rotatoria in Japanese inland waters
 Lists 210 spp. and describes some.
- El-Hawary, M. A.** (1960) F
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Notes hydrobiol. Dep. Minist. Agric. U.A.R., (52) : 12 p.
 The zooplankton of the Egyptian lakes—1. A preliminary study on the zooplankton of Lake Maryût and Lake Idkû. Ar

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Rep. Wash. St. Dep. Fish., 69 : 243 p.

Co 60-3703.

Stenger, A. H. (1959) MF
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Zoologica, N. Y., 44 (2-5) : 53-68

A study of the structure and development of certain reproductive tissues of *Mugil cephalus* Linnaeus

SFA 4 (4) 2738.

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Zoologica, N. Y., 44 (2-5) : 45-52

Studies on the histology and histopathology of the rainbow trout, *Salmo gairdneri irideus*—2. Effects of induced inflammation and cortisone treatment on the digestive organs

SFA 4 (4) 2740.

International Passamaquoddy Fisheries Board (1960) M
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Spec. sci. Rep. U.S. Fish Wildl. Serv., (360) : 40 p.

Passamaquoddy fisheries investigations, 1957-1958—Report to the International Joint Commission

Review of literature; results of oceanographic studies, biology of herring and other spp.; economics of the various fisheries; conclusions and predictions concerning oceanographic, biological and economic effects of impoundment. Issued also as: *Sci. Rep. int. Passamaquoddy Fish. Bd.*, (2).

Postel, E. (1959) M
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Bull. Soc. sci. Bretagne, (34) (3-4) : 241-82

Liste commentée des poissons signalés dans l'Atlantique tropico-oriental nord, du Cap Spartel au Cap Roxo, suivie d'un bref aperçu sur leur répartition bathymétrique et géographique (deuxième partie) (Commented list of fishes recorded in the tropic northeast Atlantic from Cape Spartel to Cape Roxo, followed by a brief summary of the bathymetric and geographic distribution—2nd part)

Co 61-07715.

Schnickers, E. & D. Eberhardt (1960) MF
61-11273
Gewäss. u. Abwäss., (28) : 73 p.

Vögel der Bislicher Insel (Birds of the Bislicher Island)

Description of the ecology of some aquatic birds.



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 Stuttgart, Franckh'sche Verlagshandlung W. Keller u. Co.
 Ruderflussskrebse (Copepods) F
 61-11274
- Timm, T.** (1960)
Eesti Loodus, (4) : 211-15 F
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 Rändkarp (*Dreissena polymorpha* Pallas in the Estonian S.S.R.)
 Distribution of the mollusc in Estonia and in Europe in general, its ecology and its use as poultry feed.
- Anon.** (1960)
France pêche, 5 (40) : 17-21 M
 61-11276
 Pourquoi garder le silence sur les algues marines et leurs mille emplois?
 (Why keep silent about the marine algae and their thousand uses?)
 General article about seaweed resources of France and their composition and utilization.
- Parquic, J. S.** (1960)
France pêche, 5 (40) : 27-36, 69-79 M
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 Activités du Comité Central des Pêches Maritimes pendant l'année 1959
 (Activities of the Central Marine Fisheries Committee during the year 1959)
 Extracts of full report, refers to conservation measures in NE Atlantic, protection of grounds, etc.
- Anon.** (1960)
France pêche, 5 (40) : 37-54 M
 61-11278
 Rapport sur la production de l'industrie des pêches maritimes en 1959
 (Report on the production of the sea fisheries industry in 1959)
 Summary statistical tables are presented and interpreted with regard to trends.
- Lenier, R.** (1960)
France pêche, 5 (40) : 55-8 M
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 A propos de la sardine (Regarding the sardine)
 Considers problems of detection and capture.
- Anon.** (1960)
France pêche, 5 (40) : 65-6 M
 61-11280
 Fiche technique des rascasses (Fishery cards on hog-fish)
 Detachable cards, ill., giving biology, habitat, fishing, catch, commercial use of *Scorpaena scrofa* and *Sebastes norvegicus*.

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Bot. Gaz., 122 (1) : 33-45
 Experimental control of zoid discharge and rhizoid formation in the green alga *Enteromorpha*
 Presents investigations of factors stimulating or inhibiting zoid discharge. Observations on polarity and rhizoid formation are also reported. Reviews work on other marine algal groups.
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Ekol. polsk., B6 (3) : 217-36
 Metoda wyznaczania reprezentatywnej krzywej dla ciągu małych prób (A method of determining the representative curve for a series of small samples). En
 Suggests a method of calculating the curve by small sections formed from the various gaps which are limited on one side by a completed sample.
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- Gurzeda, A. (1960)**
Ekol. polsk., 5B (3) : 257-68
 Wpływ presji narybku na dynamikę liczebności Tendipedidae i Cladocera (Influence of the pressure exerted by carp fry on the quantitative dynamics of Tendipedidae and Cladocera). En
 Quantitative dynamics of several spp. of Cladocera, the population of Tendipedidae larvae and the course followed by the emergence of Tendipedidae imagines at different periods of the season were defined, giving the number and size of the animals found in the alimentary canals examined.
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 Review of the papers presented on the conference held in Moscow, Jan. 1960.
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- Järvekülg, A. (1960)**
Toim. Eesti NSV Tead. Akad. (biol.), (3) : 199-214
 Materjale Pärnu lahe põhja; pp, astoli kohta (Contribution to the benthos of Gulf of Paernu). De Ru
 Spp. composition of benthos communities, distribution of spp. on different bottoms and depths and distribution of biomass.
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Eesti Loodus, (3) : 129-35
 Ookeani kaitse on looduse kaitse (The protection of the ocean is the protection of the nature)
 Review of the recent scientific results in oceanography connected with the disposal of radioactive wastes.

Björnberg, T. K. S. (1959)

Bol. Inst. oceanogr. S. Paulo, 10 (1) : 104 p.

On Enteropneusta from Brazil

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Account of the taxonomy and distribution of the Enteropneusta found on the shores of Paraná of São Paulo and in the waters from 34° 49' S to 05° 44.3' N off Brazil from 1952 to 1958.

Wyrtki, K. (1960)

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The Antarctic Circumpolar Current and the Antarctic Polar Front. Fr De

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A frictional model is used, which allows the calculation of the transverse circulation of the current in full detail. The transverse circulation under different wind conditions is calculated and discussed.

Seelkopf, C. & L. F. Boscán (1960)

Dtsch. hydrogr. Z., 13 (4) : 174-80

Hydrochemische Untersuchungen im Maracaibo-See (Hydrochemical investigations in lake Maracaibo). En Fr

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Description of the geography of the lake, the factors influencing the salinity of the water and consequences of the salinity on the biology of the lake and the use of water.

Koop, W. (1959)*

Seewart, 20 (5) : 205

Erfahrungsbericht über die Ansteuerung des St. Lorenz-Stromes durch die Cabot-Strasse, Mitte April 1959 (Report on experience in navigation for the St. Lawrence Stream from Cabot Strait, mid April 1959)

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Penczak, T. (1960)

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Einpflanzung von Fremdkörpern aus Kunststoffen und anderem in die Muskulatur und in die Leibeshöhle von Fischen—Versuche an Karpfen (*Cyprinus carpio* L.) (Implantation of foreign bodies made of synthetic and other materials, into the muscular system and the body cavity of fishes—Investigation of carp, *Cyprinus carpio* L.)

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Section on fishing gives account of maiden voyage of 'Dalmor' to North Atlantic, Oct. 1960.
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 The freshwater diatom-flora from Mugad, Dharwar District with some ecological notes
 Descriptions based on collections made mostly from small bodies of water in fields and on road-sides over one month, Jul.-Aug. 1949; describes 58 spp. and makes some observations on their ecology.

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Ceylon J. Sci. (biol. Sci.), 2 (2) : 253-5A new marine *Argulus* (Copepoda, Branchiura)

Description of a hitherto undescribed sp. taken off the south-west coast of Ceylon.

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Bull. Kobe Mar. Obs., (167) : Item 1, 9 p.

(Statistical investigation on the acceleration of tropical cyclone's movement).
Ni En

Observed positions of centres of tropical cyclones near Japan 1950-59; methods of computing their acceleration; and computations made for the given data. Discussion of various conclusions bearing on the value of these figures for forecasting the cyclone's track.

M

Kawanabe, Y. (1961)

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Bull. Kobe Mar. Obs., (167) : Item 2, 6 p.

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M

Anon. (1961)

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Cruise Rep. Biol. Lab., Honolulu, (53) : 3 p.

Cruise report 'Charles H. Gilbert', cruise 53

From 20 Jun. to 30 Jul. 1961. Area of operation: latitude 16-24°, longitude 151° 30'-169° 30'. Defines purpose to make hydrological observations, collect data on bird flocks and associated fish schools, make plankton tows. Briefly summarizes general results.

MF

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Freak fishes

Description of some unusual specimens of fishes and citation of references to other examples.

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Aust. Mus. Mag., 13 (9) : 302-5

Land and freshwater invertebrates of the Sydney District

Brief general account of a number of spp.

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Oceanogr. Sta. List, 48 : 84 p.
 Oceanographic investigations in eastern Australian waters, F.R.V. 'Derwent Hunter' 1959

Tables, giving, for each station, data, time and position, depths of water sampling, and for each sample, temperature, salinity, O_2 content and percentage saturation, sigma t and total phosphate; also measurements of pigments and light penetration.

- Moriyasu, S.** (1961) M
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An example of the conditions at the occurrence of the cold water region

Traces the fluctuation and movement of the cold water region using data collected over four weeks; comparison of this cold water region with that in the Enshu-nada.

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Oceanogr. Mag., 12 (2) : 77-121

On the theory and technique of an easy method of wide range photogrammetry for the observations of sea ice distribution.

- Sugiura, J.** (1961) M
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Oceanogr. Mag., 12 (2) : 123-56

On the currents south off Hokkaido in the western North Pacific—3.

Collection of data and analysis of variations in the Oyashio Current and counter-current.

- Yasui, M.** (1961) M
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Oceanogr. Mag., 12 (2) : 157-83

Internal waves in the open ocean—an example of internal waves progressing along the oceanic frontal zone

Mathematical example given, and equation formulated and solved; discussion of relation of wave number to frequency, distributions of amplitudes and velocity of water particles.

- Yasui, M.** (1961) M
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Oceanogr. Mag., 12 (2) : 185-205

Internal waves in the open ocean—internal waves of long periods in the ocean weather station "Tango"

Collection of data at station "Tango", periodicity in depth fluctuation of equal sigma-t surfaces, reality and causes of this periodicity.

- Masuzawa, J.** (1961) M
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Oceanogr. Mag., 12 (2) : 207-18
 Preliminary report of the Japanese expedition of Deep-Sea, the third cruise (JEDS-3)

From 12 May to 20 Jun. 1960. Area of operation: Ramapo Deep in the Japan Trench south of Tokyo. Defines purpose to make physical, chemical, geological and biological observations at prearranged stations, direct current measurements and echo-sounding. Briefly summarizes the general results.

- Matsue, Y., R. Marumo & Y. Komaki** (1961) M
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Oceanogr. Mag., 12 (2) : 219-22
 Notes on the mid-water animals collected in the third cruise of Japanese expedition of Deep Seas (JEDS-3)

Location of stations, depth, temperature, chlorinity; numbers and spp. of animals collected at stations.

- Redfield, A. C.** (1961) MF
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Limnol. Oceanogr., 6 (1) : 1-12
 The tidal system of lake Maracaibo, Venezuela

Estimation of tidal elevation and currents considering the dimensions of the basin and friction and comparison with the observed elevations and currents. The tides are attributable to a standing wave produced by tidal waves entering from the Gulf of Venezuela and their reflection from the head of the lake.

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Limnol. Oceanogr., 6 (1) : 13-23
 Sources of phosphorus and nitrogen for lakes on Afognak Island

The contribution of inlet streams to the phosphorus and nitrogen budgets of two lakes on Afognak Island, Kodiak Region, Alaska, has been studied with special reference to the morphology of the associated watersheds.

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Limnol. Oceanogr., 6 (1) : 24-5
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Investigation of the light vector diagram in the water, its distortion by the sun's position and the prediction of this distortion from the knowledge of scattering and reflecting properties of the water.

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 Negentropy flow in communities of plankton

Presentation of a model, generalizing negentropy flux in plankton communities and comparison of the model with actual observations.

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Limnol. Oceanogr., 6 (1) : 31-5
 A biological assay for thiamine in sea water

A non-filamentous marine phycomycete, isolate S-3, responds in a quantitative and specific manner to the presence of thiamine. This fungus has been used to assay for thiamine in sea water. The assay is sensitive to 25 $\mu\text{g/ml}$ thiamine.

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Limnol. Oceanogr., 6 (1) : 36-41

Cobalamin and thiamine in Long Island Sound: patterns of distribution and ecological significance

Cobalamin occurs in surface waters of Long Island Sound at high levels—to 16 $\mu\text{g/ml}$ —during the winter, falling markedly with the late winter diatom bloom and rising during the summer with temperature. Thiamine is present only in barely detectable amounts in the main body of the sound.

- Buck, J. D. & R. C. Cleverdon (1961)** M
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Limnol. Oceanogr., 6 (1) : 42-4

The effect of Tween 80 on the enumeration of marine bacteria by the spread and pour plate methods

The effect of adding Tween 80 to water from Fisher's Island Sound was studied. Spread and pour platings, using media with and without yeast extract, showed highest counts by the spread technique, corroborating previous work. Tween 80 at 20 ppm was inhibitory, at 10 ppm showed only irregular increases.

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Phytoplankton and chlorophyll in the Gerlache and Bransfield Straits of Antarctica

Results of quantitative studies of the phytoplankton and chlorophyll *a* content of waters in the Gerlache and Bransfield Straits of Antarctica during Dec. 1958 and Jan. 1959.

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Limnol. Oceanogr., 6 (1) : 53-60

Surface schooling and feeding behaviour in the white bass, *Roccus chrysops* (Rafinesque), in lake Mendota

The pattern of feeding activity of the white bass is shown to correspond with the morning and evening concentrations of *Daphnia* in the surface waters. Some effects of the feeding behavior upon the efficiency of food-intake are discussed.

Sherman, K. & J. P. Wise (1961)

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Limnol. Oceanogr., 6 (1) : 61-7

Incidence of the cod parasite *Lernaeocera branchialis* L. in the New England area, and its possible use as an indicator of cod populations

A total of 4,519 cod, *Gadus morhua* L., from the coastal and offshore regions of New England were examined during Jun. to Dec. 1957 for the parasitic copepod, *L. branchialis* L. Infestation decreased from north to south and inshore to offshore.

Steele, J. H. & I. E. Baird (1961)

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Limnol. Oceanogr., 6 (1) : 68-78

Relations between primary production, chlorophyll and particulate carbon

In two very different areas in the North Sea Aberdeen Bay—7 m—and the Fladen Ground—140 m—seasonal cycles of C^{14} uptake, chlorophyll, and particulate organic carbon were observed. The ratios of C^{14} uptake to chlorophyll concentration showed marked variations seasonally. There were no signs of "dead" chlorophyll or of a decrease in the ratio due to nutrient deficiency.

Carriker, M. R. (1961)

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Limnol. Oceanogr., 6 (1) : 79

ThurLOW Christian Nelson, marine biologist

CR 61-05754.

Lyman, J. (1961)

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Limnol. Oceanogr., 6 (1) : 80-2

Changes in pH and total CO_2 in natural waters

Theoretical discussion of CO_2 balance in fresh and sea water and discussion of possible difference between titration with a strong acid and titration with H_2CO_3 .

Verduin, J. (1961)

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61-11656

Limnol. Oceanogr., 6 (1) : 82-3

Changes in pH and total CO_2 in natural waters

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Gifford, C. E. & E. P. Odum (1961)

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Limnol. Oceanogr., 6 (1) : 83-5

Chlorophyll *a* content of intertidal zones on a rocky seashore

Data on chlorophyll extraction from a vertical series of samples to determine if chlorophyll concentrations throughout the intertidal region are similar, as might be expected on ecological grounds, or greatly different as might be indicated by the diverse nature of the standing crops in the different zones.

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 Description of the modified sampler.
- Hopwood, A. J. & J. R. Olive** (1961) F
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Limnol. Oceanogr., 6 (1) : 87-8
 Simple mechanical aid to limnological sampling
 Description of a simple pulley and clamp.
- Webster, D. A.** (1961) F
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Limnol. Oceanogr., 6 (1) : 88-90
 An unusual lake of the Adirondack Mountains, New York
 Description of the physical, chemical properties and negative attempts to transplant various spp. into the lake.
- Emery, K. O.** (1961) G
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Limnol. Oceanogr., 6 (1) : 90-3
 A simple method of measuring beach profiles
 Description of the method.
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Limnol. Oceanogr., 6 (1) : 93-6
 The study of *in situ* marine photosynthesis using a large plastic bag
 Description of the plastic bag.
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Limnol. Oceanogr., 6 (1) : 96
 Screened pail for sifting bottom-fauna samples
 Description of a screened pail.
- Dovganiuk, V. A.** (1961) MF
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Priroda, Moskva, 50 (1) : 111-2
 Akula v Chernom more (A shark in the Black Sea)
- Mamaev, O. I.** (1961) M
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Priroda, Moskva, 50 (2) : 94-6
 Tehenie Kromvella (Cromwell's Current)

- Zaitsev, Iu. P.** (1961) M
61-11666
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 Mollusk, meshaiushchii rybnomu promyslu (A mollusc injurious to fisheries)
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 Length composition of *S. ocellata* by sexes and months.
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 A review of toxaphene for use in fish eradication
 Reviews its toxicology, method of application and concentrations needed, factors controlling the detoxification of waters following its use.
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 A cofactor required by Kappa in the infection of *Paramecium aurelia* and its possible action
 Deals with the results obtained using fractions of active preparations of cell-free kappa-bearing preparations made from killer animals.
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In vitro I_{131} uptake by tissues of rainbow trout
- CR 61-03822. Presents data on uptake by different tissues of *Salmo gairdnerii* under different experimental conditions.
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Physiol. Zoöl., 34 (1) : 39-54
The oxygen consumption of the crayfish *Orconectes immunis* and *Orconectes nais* in response to temperature and to oxygen saturation
- Elucidates physiological dynamics that are important in determining ecological distribution of these two spp.
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- Considers the five main fisheries during Aug. 1957 to Jul. 1958, and the relative importance of the spp. of commercial value.
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Notas Cent. Biol. pisc., Lisboa, (18) : 16 p.
Algumas regras práticas para a pesca do atum com isco vivo (Some practical rules for live bait tuna fishery)
- Compilation of information on location of shoals, fisheries, live bait tanks, handling of catch.
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- Corbet, P. S.** (1961) 61-11680
Proc. zool. Soc. Lond., 136 (1) : 1-101
The food of non-cichlid fishes in the Lake Victoria Basin, with remarks on their evolution and adaptation to lacustrine conditions

Carlisle, D. B. (1961)M
61-11681*Proc. zool. Soc. Lond.*, 136 (1) : 141-6

Locomotory powers of adult ascidians

Field observations of several solitary and colonial spp. and laboratory experiments with *Ciona* and *Diplosoma*.

La Faunce, D. A. (1960)F
61-11682*Int. Fish. adm. Rep., Calif.*, (60-9) : 13 p.

Comparison of some aspects of white crappie, *Pomoxis annularis*, and black crappie, *Pomoxis nigromaculatus*, life histories

Based on a literature search to determine differences in seasonal catchability, growth rates, diurnal and nocturnal activity, reproductive rates, computation factors and environmental requirements between the 2 spp. Supplemented by specific observations made in California.

Pister, E. P. (1960)F
61-11683*Int. Fish. adm. Rep., Calif.*, (60-11) : 20 p.

Some limnological factors influencing the trout fishery of Crowley Lake, Mono County, California

Describes a reproductive reservoir of bicarbonate character.

Kabel, C. S. (1960)F
61-11684*Int. Fish. adm. Rep., Calif.*, (60-12) : 74 p.

Catchable trout studies at lake Pillsbury, Lake County, 1957

Describes a creel census in a marginal trout reservoir, using tagged and marked fish to determine the result of stocking catchable-sized *Salmo gairdnerii*.

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1960 inland spearfishing

Summarizes observations on 1960 spearfishing regulations on experimental basis and recommends 1961 regulations.

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Notes on silt pollution in the Truckee River drainage, Nevada and Placer Counties

Describes a biological survey of an area silted by highway construction to determine its effect especially on bottom organisms, fish and fishing. Recommendations for the conduct of short-term investigations on silting are made.

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A study to determine which taxonomic characters used in distinguishing *Acipenser transmontanus* and *A. medirostris* are reliable for juvenile fish.
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Seventh progress report on trout feeding
Describes an experiment with rainbow trout to test diet changes in a commercial dry food.
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The Benguela Current
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An ecological analysis of the distribution of animals under the conditions of a temperature gradient
En 61-07306. Sums up results in this field of ecology and indicates possibilities which open up when the method of gradient distribution of animal is used. Restricts data to temperature effect.

Takahashi, T. (1961)M
61-11693*J. geophys. Res.*, 66 (2) : 477-94

Carbon dioxide in the atmosphere and in Atlantic ocean water

An investigation of carbon dioxide partial pressures in the atmosphere and surface ocean is summarized. Results are given for about 470 hours of air analyses and 200 individual surface ocean water measurements made from 1957 to 1959 between 60° N and 58° S.

Le Méhauté, B. (1961)M
61-11694*J. geophys. Res.*, 66 (2) : 495-9

A theoretical study of waves breaking at an angle with a shore line

By hydrodynamic theory, the height and "wavelength" of a breaking wave, the depth of breaking, and the angle of the breaking crest with a straight shore line on a gently sloping beach are calculated from the height, length, and angle of the wave in water of infinite depth.

Chappelear, J. E. (1961)M
61-11695*J. geophys. Res.*, 66 (2) : 501-8

Direct numerical calculation of wave properties

A numerical method for the calculation of wave properties is presented. It involves expanding the velocity components and the equation of the profile in Fourier series and determining the Fourier coefficients numerically by the method of least squares from the Bernoulli equation and from the equation insuring that the particle motion at the surface matches the profile motion.

Deardorff, J. W. (1961)F
61-11696*J. geophys. Res.*, 66 (2) : 529-34

Local evaporation from a smooth water surface

The evaporation factor was measured for a water surface considered to be hydrodynamically smooth. The evaporation from a section of a smooth water surface was compared with that from a small pan situated upon it.

Fry, J. C. & R. W. Raitt (1961)M
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Determination of the sound velocities in the Pacific Ocean.

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Taxonomic description of sp.

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 Taxonomic lists and descriptions of the spp. found with notes on their ecology.
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Contribution à l'étude des crénilabres méditerranéens: genre *Symphodus* (famille des Labridés) (Contribution to the study of Mediterranean crenilabrids: genre *Symphodus*, family of labrids)

Biometric study and key to the classification of various spp. of genus. Proportions, colorations, descriptions and common names of spp. are listed.

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Bull. Mar. Sci. Gulf Caribb., 10 (4) : 421-9
 The Chaetognatha of the northeastern coast of Honduras, Central America
- 2270 specimens found in 9 stations between 100 fathom line and coast. *Sagitta hispida*, *S. tenuis*, *S. enflata*, *S. serratodentata*, *Krohnitta pacifica*, *K. subtilis* and *Pterosagitta draco* were identified. The most common spp. among those collected is *S. hispida*.
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61-11790
- Moore, H. B. & J. C. Bauer** (1960)
Bull. Mar. Sci. Gulf Caribb., 10 (4) : 430-43
 An analysis of the relation of the vertical distribution of three copepods to environmental conditions
- Rhincalanus cornutus*, *Pleuromamma abdominalis* and *P. gracilis* determined from about 400 net hauls. Analyzed in terms of temperature, illumination, pressure and seasonal cycle probably associated with successive broods. Variations of behaviour within the populations are demonstrated as well as diurnal rhythms.
- MF
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- Randall, J. E. & H. A. Randall** (1960)
Bull. Mar. Sci. Gulf. Caribb., 10 (4) : 444-80
 Examples of mimicry and protective resemblance in tropical marine fishes
- Definitions of terms given and known examples discussed. Further observations on mimicry of *Thalassoma bifasciatum*, by *Hemiemblamaria simulus* in Florida. Examples of protective resemblance involving juvenile fishes.
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61-11792
- Bullock, W. L.** (1960)
Bull. Mar. Sci. Gulf Caribb., 10 (4) : 481-4
 Some acanthocephalan parasites of Florida fishes
- Examination of 479 fish—25 spp.—gave 5 spp. of Acanthocephala. Host and geographic distribution of each parasite is considered.
- M
61-11793
- Grice, G. D.** (1960)
Bull. Mar. Sci. Gulf Caribb., 10 (4) : 485-90
 Copepods of the genus *Oithona* from the Gulf of Mexico
- 5 spp. are reported. Distribution is indicated and key presented for identification.

Lynn, W. R. & W. T. Yang (1960)

MF
61-11794

Bull. Mar. Sci. Gulf Caribb., 10 (4) : 491-509

The ecological effects of sewage in Biscayne Bay—Oxygen demand and organic carbon determinations

Evaluation of manometric techniques in measuring biochemical oxygen demand in bay-bottom sediments indicates limitations of method. Wet-oxidation method for determination of organic carbon is proposed and compared. Proposed method offers quantitative relative measure of the carbonaceous content of the benthal deposit; is a simple and rapid test having utility comparable to that obtained utilizing the Warburg; and eliminates complex experimental procedures and equipment associated with Warburg B.O.D. test.

Anon. (1961)

F
61-11795

Discovery, 22 (9) : 372

Warning of radioactivity

The council of OEEC has established a European system for the supervision of environmental radioactivity and for emergency alerts where an abnormal increase is detected. This may be extended to water-borne contamination later.

Gregory, S. (1961)

F
61-11796

Discovery, 22 (9) : 384-9

Exploiting Britain's water resources

Silva, E. De Sousa (1960)

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61-11797

Trab. Cent. Biol. pisc., (28-30) : 7-56

O microplâncton de superfície nos meses de setembro e outubro na estação de Inhaca (Moçambique) (Surface microplankton during September and October in the Station of Inhaca, Mozambique). En

A list of spp. with notes on occurrence and abundance.

da Franca, P. (1960)

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61-11798

Trab. Cent. Biol. pisc., (28-30) : 57-101

Nova contribuição para o conhecimento do género *Merluccius* no Atlântico oriental ao sul do Equador (New contribution to the knowledge of the genus *Merluccius* of the western Atlantic south of the Equator)

Comparative study of meristic and morphometric characters and distribution of *M. merluccius*, *M. polli*, *M. senegalensis*, *M. capensis capensis*, *M. capensis paradoxus*.

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- da Franca, M. d. L. Paes** (1960) 61-11799
Trab. Cent. Biol. pisc., (28-30) : 103-16
 Sobre a variação do número de lamelas olfactivas em *Merluccius africanos* (nota prévia) (On the variation of the number of olfactory lamellae in African *Merluccius*—preliminary note)
 Comparative study between *M. polli*, *M. capensis capensis* and *M. capensis paradoxus*.
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Sci. World, 5 (1) : 16-9
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J. Amer. statist. Ass., 55 (292) : 736-51
 Bibliography on simulation, gaming, artificial intelligence and allied topics
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- Vassiliev, M. & S. Goushev** (Crowcroft, H. E. & R. J. Wason, Transl.) (1961) 61-11805
 In 61-11804 : 100-16
 At Neptune's table
 An interview with L. A. Zenkevich concerning oceanic exploration, marine fisheries, prospects of protein supply from the sea; biology of deep sea animals; marine geophysical research; *Chlorella* culture in Czechoslovakia; genetics and improvement of marine resources; use of seaweed, future of whaling.

M

61-11806

Anon. (1961)*New Scient.*, 11 (247) : 322-3

A promising haul from the Puerto Rico Trench

Using a new dredge, rocks incl. some pieces of the lower part of the Earth's crust, have been collected.

F

61-11807

Anon. (1961)*New Scient.*, 11 (247) : 323

A remedy for Britain's foaming rivers

The nuisance of foam from household detergents in domestic plumbing, sewage works and rivers.

MF

61-11808

Hughes, G. M. (1961)*New Scient.*, 11 (247) : 346-8

How a fish extracts oxygen from water

In its respiratory process the fish uses the "counter-current" technique, together with a remarkable two-pump—buccal and opercular—mechanism providing a continuous flow of water through the gills. There are variations in this basic plan in fishes occupying different habitats.

M

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Furnestin, J. (1960)*Rev. Trav. Inst. Pêches marit.*, 24 (4) : 453-80

Teneur en oxygène des eaux de la Méditerranée occidentale (supplément à l'étude hydrologique de juin-juillet 1957) (Oxygen content of the waters of the western Mediterranean—supplement to the hydrological study of June-July 1957)

Distribution of oxygen in various areas and at different depths of the western Mediterranean. Correlation of oxygen distribution with salinities and temperatures.

MF

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Croissance et maturation des ovocytes chez la forme totalement adaptée aux eaux douces de l'aloise marocaine (*Alosa alosa* Linné)—Evolution cytologique. Stades sexuels et cycle biologique (Growth and maturation of ovocytes in the form of Moroccan shad, *Alosa alosa* Linné, totally adapted to freshwater—Cytological evolution, sexual stages and biological cycle)

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Anat. Rec., 137 (3) : 343
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 BA 36A (11) 33006. Abstr. only.
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 On the survival value of gregariousness in the guppy, *Lebistes reticulatus*
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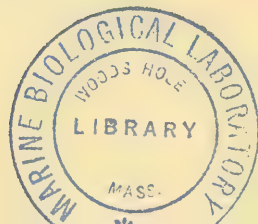
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Kornas, J., E. Pancer & B. Brzyski (1960)M
61-12863*Mater. Floryst. Geobot.*, 6 (1) : 3-91

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BAgr. 25 (4) 26928.

Leentvaar, P. (1960)F
61-12864*Levende Nat.*, 63 (7) : 156-61The hydrobiological condition of the Selzerbeek between Vaals and Gulpen.
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BAgr. 25 (4) 26936.

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61-12865
Bull. Soc. franç. Physiol. vég., 5 (4) : 183-7
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61-12866
Bot. Zh., 45 (11) : 1681-7
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 Ru
 BAgr. 25 (4) 26948.
- De Mazancourt, J.** (1960) MF
61-12867
Trav. Inst. sci. chérif. (Bot.), 16 : 95 p.
 Étude écologique et biologique de la végétation algale de l'estuaire de l'oued
 Bou-Regreg (Maroc) (Ecological and biological study of the algal vegetation
 in the estuary of the Bou-Regreg River, Morocco)
 BAgr., 25 (4) 26949.
- Munda, I.** (1960) M
61-12868
Nova Hedwigia, 2 (1/3) : 191-242
 On the seasonal distribution of the benthonic marine algae along the
 north-eastern coast of the Isle of Krk—surroundings of Silo; northern Adriatic
 BAgr. 25 (4) 26955.
- Petrova, V.** (1960) MF
61-12869
Izv. Bot. Inst. bulg. Akad. Nauk, 7 : 247-77
 (Composition and quantitative distribution of phytoplankton in the Bay
 of Varna). Bu De
 BAgr. 25 (4) 26965.
- Ettl, H.** (1961) F
61-12870
Arch. Protistenk., 105 (2) : 273-80
 Zwei neue Chlamydomonaden (Two new chlamydomonads)
 BAgr. 25 (7) 54369. *C. gloeophila* and *C. hyperstigmata*.

MF
61-12871**FAO (1961)**

Rome, 56 p.

FAO training centers and seminars 1950-1960

Reviews training activities, training centers, training courses, development centers, study tours and seminars, carried out by FAO, either by itself or jointly with other agencies or organizations, on a regional, interregional or international basis, for the period 1950 end 1960, under the Regular Program, the Expanded Program of Technical Assistance, the UN Special Fund, and other programs.

M
61-12872**Euler, U. S. v. & R. Fange (1961)***Gen. comp. Endocr.*, 1 : 191-4

Catecholamines in nerves and organs of *Myxine glutinosa*, *Squalus acanthias*, and *Gadus callarias*

Account of catecholamine analyses of organs from *Myxine glutinosa*, *Squalus acanthias*, and *Gadus callarias* which shows the presence of both noradrenaline and adrenaline in varying amounts and proportions.

F
61-12873**Dent, J. N. (1961)***Gen. comp. Endocr.*, 1 : 218-31

Cytological response of the newt pituitary gland to thyroidal depression

Account of observations on specimens of *Diemyctylus (Triturus) viridescens viridescens* Rafinesque after surgical or radiological thyroidectomy or after chemical depression of the thyroid.

M
61-12874**Maynard, D. M. (1961)***Gen. comp. Endocr.*, 1 : 237-63

Thoracic neurosecretory structures in Brachyura. 2. Secretory neurons

Describes secretory neurons, their location in the nervous system, and fiber tracts associated with them or with the peripheral neurohemal system. Deals with *Carcinus*, *Callinectes*, *Cancer*, *Panopeus*, *Grapsus*, *Goniopsis*, *Pachygrapsus*, *Plagusia*, *Gecarcinus*, *Ocypode*, and *Libinia* collected from east and west coast of US.

F
61-12875**Chavin, W. & A. Kovacevic (1961)***Gen. comp. Endocr.*, 1 : 264-74

Adrenocortical histochemistry of intact and hypophysectomized goldfish

M
61-12876**DeRoos, C. C. & H. A. Bern (1961)***Gen. comp. Endocr.*, 1 : 275-85

The corticoids of the adrenal of the California sea lion (*Zalophus californianus*)

Identifies corticosteroids of the adrenal as well as investigating possibility of functional zonation of the adrenal.

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61-12877
Bol. ofic. Argentina, (19.410) : 1

Decreto N° 15.221 por el que se prohíbe toda actividad pesquera, excepto la exclusivamente deportiva, en los ríos y arroyos tributarios del Paraná en la zona adyacente a Esquina, Provincia de Corrientes.—6 de diciembre 1960 (Decree No. 15.221, prohibiting all fishing activities except for sport, in the tributary rivers and streams of the Parana in the zone adjacent to Esquina, Corrientes Province.—6 December 1960)

Constant and intensive commercial fishing in such waters is jeopardizing reproduction.

Australia. Commonwealth. Laws, Statutes, etc. (1961) M
61-12878
Commonw. Aust. Gaz., (48) : 2107

Fisheries notice No. 1 made under the fisheries act 1952-1959 relating to minimum size of mesh of certain trawl-nets.—19 May 1961

Prohibits the taking from proclaimed waters of fish other than prawns by (a) otter trawl-net, (b) seine trawl-net—the size of the mesh of which is less than prescribed.

Australia. Commonwealth. Laws, Statutes, etc. (1961) M
61-12879
Commonw. Aust. Gaz., (48) : 2107

Fisheries notice No. 2, pursuant to the fisheries act 1952-1959, relating to close season for the taking of school shark.—19 May 1961

In the specified waters during the month of November in each year.

Australia. Commonwealth. Laws, Statutes, etc. (1961) M
61-12880
Commonw. Aust. Gaz., (48) : 2107-8

Fisheries notice No. 3, made under the fisheries act 1952-1959, relating to prohibition of the taking of undersized school shark.—19 May 1961

In the specified waters.

Australia. Commonwealth. Laws, Statutes, etc. (1961) M
61-12881
Commonw. Aust. Gaz., (48) : 2108

Fisheries notice No. 4, made under the fisheries act 1952-1959, relating to close season for the taking of gummy shark—19 May 1961

In the specified waters during the month of November in each year.

Australia. Commonwealth. Laws, Statutes, etc. (1961) F
61-12882
Commonw. Aust. Gaz., (48) : 2108

Fisheries notice No. 5, made under the fisheries act 1952-1959, relating to prohibition of the taking of female crayfish carrying eggs.—19 May 1961

In the proclaimed waters.

- F
- Australia. Commonwealth. Laws, Statutes, etc.** (1961) 61-12883
Commonw. Aust. Gaz., (48) : 2108
 Fisheries notice No. 6, made under the fisheries act 1952-1959, concerning prohibitions relating to southern crayfish.—19 May 1961

Of certain sizes, from proclaimed waters; also the cutting up or dismembering on a boat of the said fish not meeting prescribed size standards.

- F
- Australia. Commonwealth. Laws, Statutes, etc.** (1961) 61-12884
Commonw. Aust. Gaz., (48) : 2108-9
 Fisheries notice No. 7, made under the fisheries act 1952-1959, relating to close season for the taking of female southern crayfish from south-eastern Australian waters.—19 May 1961

From 1 Jun. to 30 Nov. in each year.

- F
- Australia. Commonwealth. Laws, Statutes, etc.** (1961) 61-12885
Commonw. Aust. Gaz., (48) : 2109
 Fisheries notice No. 8 made under the fisheries act 1952-1959 relating to close season for the taking of southern crayfish from south-eastern Australian waters.—19 May 1961

In the proclaimed waters from 1 Sep. to 15 Oct. in each year.

- F
- Australia. Commonwealth. Laws, Statutes, etc.** (1961) 61-12886
Commonw. Aust. Gaz., (48) : 2109
 Fisheries notice No. 9 made under the fisheries act 1952-1959 relating to close season for the taking of southern crayfish from waters off north-western Tasmania.—19 May 1961

From 14 Dec. to 31 Jan. every year.

- F
- Australia. Commonwealth. Laws, Statutes, etc.** (1961) 61-12887
Commonw. Aust. Gaz., (48) : 2109-10
 Fisheries notice No. 10 made under the fisheries act 1952-1959 relating to prohibition of the taking of undersized western crayfish

In the proclaimed waters.

- F
- Australia. Commonwealth. Laws, Statutes, etc.** (1961) 61-12888
Commonw. Aust. Gaz., (48) : 2110
 Fisheries notice No. 11 made under the fisheries act 1952-1959 relating to close season for the taking of western crayfish from Abrolhos waters.—19 May 1961

Each year from 15 Aug. to the next succeeding last day of February.

REFERENCES

- F
- Australia. Commonwealth. Laws, Statutes, etc. (1961)** 61-12889
Commonw. Aust. Gaz., (48) : 2110
 Fisheries notice No. 12 made under the fisheries act 1952-1959 relating to close season for the taking of western crayfish from waters off western Australia—latitudes 26° S. to 30° S.—19 May 1961
 From 15 Aug. to 14 Nov. in each year.
- F
- Australia. Commonwealth. Laws, Statutes, etc. (1961)** 61-12890
Commonw. Aust. Gaz., (48) : 2110
 Fisheries notice No. 13 made under the fisheries act 1952-1959 relating to close season for the taking of western crayfish from waters off western Australia—latitudes 30° S. to 33° S. — 19 May 1961
 From 1 Sep. to 14 Nov. in each year.
- M
- New South Wales. Laws, Statutes, etc. (1961)** 61-12891
Govt Gaz., N.S.W., (44) : 1077
 Proclamation made under the fisheries and oyster farms act, 1935-1960, relating to Lord Howe Island.—22 March 1961
 Prohibits, in the specified tidal waters, from 17 Jul. 1961 to 16 Jul. 1966, the taking of (a) all spp. by fishing nets of every description; (b) butterfly cod and double-headers by the use of spears, spearguns and similar devices.
- F
- New South Wales. Laws, Statutes, etc. (1961)** 61-12892
Govt Gaz. N.S.W., (44) : 1078
 Proclamation made under the fisheries and oyster farms act, 1935-1960, relating to the waters of Beaver's Creek, County of Mitchell.—22 March 1961
 Prohibits the taking of fish by all methods other than a single rod and line or handline, or two set lines, in the specified waters, from 1 Apr. 1961 to 31 Mar. 1966.
- MF
- New South Wales. Laws, Statutes, etc. (1961)** 61-12893
Govt Gaz. N.S.W., (44) : 1078
 Proclamation made under the fisheries and oyster farms act, 1935-1960, relating to the whole of the waters of Hastings River, including Maria River, County of Macquarie.—22 March 1961
 Prohibits the taking of fish by means of set meshing nets, in the specified tidal waters from 1 Oct. 1961, 1962, 1963, 1964, 1965 to 31 May in each of the ensuing years.
- MF
- New South Wales. Laws, Statutes, etc. (1961)** 61-12894
Govt Gaz. N.S.W., (44) : 1078
 Proclamation made under the fisheries and oyster farms act, 1935-1960, relating to the waters of Namoi River above and below the main weir at Manilla, in the County of Darling.—22 March 1961
 Prohibits the taking of fish by all methods, in the specified inland waters, from 15 Jun. 1961 to 14 Jun. 1966.

- New South Wales. Laws, Statutes, etc. (1961)** MF
61-12895
Govt Gaz. N.S.W., (44) : 1077-8
Proclamation made under the fisheries and oyster farms act, 1935-1960, relating to the tidal waters of Lake Illawarra, County of Camden.—29 March 1961
- Rescinds the proclamation of 15 Jan. 1958, published in *Govt Gaz. N.S.W.*, (17), 7 Feb. 1958 and prohibits the taking of fish by nets of every description, in the specified tidal waters, from 1 Apr. 1961 to 31 Mar. 1966.
- New South Wales. Laws, Statutes, etc. (1961)** MF
61-12896
Govt Gaz. N.S.W., (63) : 1726
Proclamation made under the fisheries and oyster farms act, 1935-1960, relating to portion of waters of Woronora River, County of Cumberland.—17 May 1961
- Prohibits the taking of fish by the use of nets of every description, in the specified tidal waters, from 28 Jul. 1961 to 27 Jul. 1966.
- New South Wales. Laws, Statutes, etc. (1961)** F
61-12897
Govt Gaz. N.S.W., (63) : 1725-6
Proclamation made under the fisheries and oyster farms act, 1935-1960, relating to the whole of the waters of Cooks River, County of Cumberland.—24 May 1961
- Prohibits the taking of fish by all methods, in the specified tidal waters, from 28 Sep. 1961 to 27 Sep. 1966.
- Western Australia. Laws, Statutes, etc. (1961)** F
61-12898
Govt Gaz. W. Aust., (42) : 1204-6
Swan River conservation regulations, 1961, made under the Swan River conservation act, 1958.—10 May 1961
- Extensive regulations relating *inter alia*, to the preservation and purity of waters.
- Western Australia. Laws, Statutes, etc. (1961)** F
61-12899
Govt Gaz. W. Aust., (44) : 1246
F.D. 192/21 Ex. Co. No. 780. Proclamation made under the fisheries act, 1905-1960.—10 May 1961
- Prohibits the taking of cray fish in the specified waters, from 15 Aug. 1961 to 28. Feb. 1962.
- Cameroon. Laws, Statutes, etc. (1961)** M
61-12900
J. off. Caméroun, (1448) : 736-52
Loi de finances No. 61-11 du 14 juin 1961 pour l'exercice 1961-1962 (Finance law No. 61-11 for the 1961-1962 budget year.—14 June 1961)
- Extensive financial provisions. Art. 11-12 modifies customs tariffs in respect of fishing nets.

REFERENCES

M
61-12901

Canada. Laws, Statutes, etc. (1961)
Can. Gazette (II), (9) : 637

Statutory orders and regulations/61-160. Order in council P.C. 1961-577 amending the seal protection regulations, pursuant to the fisheries act.—20 April 1961

No person shall kill or take any seal, (a) in the front area between the 5th day of May and the 10th day of March following, (b) in the Gulf area between the 5th day of May and the 5th day of March following.

M
61-12902

Canada. Laws, Statutes, etc. (1961)
Can. Gazette (II), (9) : 663

Décrets, ordonnances et règlements statutaires/61-160. Décret C.P. 1961-577 modifiant le règlement pour la protection des phoques, en vertu de la loi sur les pêcheries.—20 avril 1961 (Statutory orders and regulations/61-160. Order in council P.C. 1961-577 amending the seal protection regulations, pursuant to the fisheries act.—20 April 1961)

Fr 61-12901

M
61-12903

Canada. Laws, Statutes, etc. (1961)
Can. Gazette (II), (9) : 650-1

SOR/61-170. Order in council P.C. 1961-608 amending the lobster fishery regulations made under the fisheries act.—27 April 1961

New descriptions of lobster fishing districts No. 6B and 7B.

M
61-12904

Canada. Laws, Statutes, etc. (1961)
Can. Gazette (II), (9) : 675-6

DORS/61-170. Arrêté C.P. 1961-608 modifiant le règlement de pêche du homard en vertu de la loi sur les pêcheries.—27 avril 1961 (SOR/61-170. Order in council P.C. 1961-608 amending the lobster fishery regulations made under the fisheries act.—27 April 1961)

Fr 61-12903.

MF
61-12905

Canada. Laws, Statutes, etc. (1961)
Can. Gazette (II), (9) : 652-5

SOR/61-171. Order in council P.C. 1961-609 amending the British Columbia fishery regulations pursuant to the fisheries act.—17 April 1961

Miscellaneous amendments concerning bag limits, methods of fishing, closed seasons, etc.

MF
61-12906

Canada. Laws, Statutes, etc. (1961)
Can. Gazette (II), (9) : 677-80

DORS/61-171. Arrêté C.P. 1961-609, modifiant le règlement de pêche de la Colombie-Britannique en vertu de la loi sur les pêcheries.—27 avril 1961 (SOR/61-171. Order in council P.C. 1961-609 amending the British Columbia fishery regulations pursuant to the fisheries act.—17 April 1961)

Fr 61-12905.

MF

Canada. Laws, Statutes, etc. (1961)

61-12907

Can. Gazette (II), (10) : 688-98

SOR/61-187. Order in council P.C. 1961-654 amending the Manitoba fishery regulations made under the fisheries act.—4 May 1961

Numerous amendments relative to fishing licences, fishing methods, bag limits, closed seasons and closed areas, etc.

MF

Canada. Laws, Statutes, etc. (1961)

61-12908

Can. Gazette (II), (10) : 712-22

DORS/61-187. Arrêté C.P. 1961-654 modifiant le règlement de pêche du Manitoba selon la loi sur les pêcheries.—4 mai 1961. (SOR/61-187. Order in council P.C. 1961-654 amending the Manitoba fishery regulations made under the fisheries act.—4 May 1961)

Fr 61-12907.

MF

Canada. Laws, Statutes, etc. (1961)

61-12909

Can. Gazette (II), (10) : 708-9

SOR/61-196 made under the navigable waters protection act proclaiming Shoal Arm, Newfoundland, exempt from section 19 of the act.—3 May 1961

Shoal Arm exempted from the operation of those sections of the navigable waters act which prohibit the deposit of rubbish or other material in navigable waters.

MF

Canada. Laws, Statutes, etc. (1961)

61-12910

Can. Gazette (II), (10) : 732-3

DORS/61-196 en vertu de la loi sur la protection des eaux navigables, déclarant par proclamation Shoal Arm, Terre-Neuve, soustrait à l'application de l'article 19 de la loi.—3 mai 1961 (SOR/61-196 made under the navigable waters protection act proclaiming Shoal Arm, Newfoundland, exempt from section 19 of the act.—3 May 1961)

Fr 61-12909.

MF

Canada. Laws, Statutes, etc. (1961)

61-12911

Can. Gazette (II), (10) : 715

SOR/61-199. Order in council P.C. 1961-683, amending the Prince Edward Island fishery regulations made under the fisheries act.—11 May 1961

The amendments relate to fishing for smelts and to fishing for trout.

MF

Canada. Laws, Statutes, etc. (1961)

61-12912

Can. Gazette (II), (10) : 739

DORS/61-199. Arrêté C.P. 1961-683 modifiant le règlement de pêche de l'île du Prince-Edouard selon la loi sur les pêcheries.—11 mai 1961 (SOR/61-199. Order in council P.C. 1961-683, amending the Prince Edward Island fishery regulations made under the fisheries act.—11 May 1961)

Fr 61-12911.

REFERENCES

Ceylon. Laws, Statutes, etc. (1961)

MF
61-12913

Act (32), Parliament of Ceylon, 1st session 1960-61, 28 p.

L.D.-O. 51/60. Anuradhapura preservation board act, No. 32 of 1961: an act to provide for the establishment of a board for the preservation and development of Anuradhapura and such other areas as may be brought under the control of the board, and to make provision for matters incidental to or connected therewith.—2 June 1961

The functions of the board shall be, *inter alia*, to promote and control fisheries.

Chile. Laws, Statutes, etc. (1961)

MF
61-12914

Diario ofic., Santiago, (24,941) : 937

Decreto número 340 estableciendo la veda por tres años para el molusco denominado ostra (*Ostrea chilensis*).—25 de abril de 1961 (Decree No. 340, laying down a three-year closed season on Chilean oysters, *Ostrea chilensis*.—25 April 1961)

Applicable in Ancud Bay and the Gulf of Quetalmahue.

Colombia. Laws, Statutes, etc. (1960)

F
61-12915

Diario ofic., Bogotá, (30454) : 362

Resolución número 1259 de 29 de diciembre de 1960 que establece la veda de pesca de trucha en la represa del Sisga (Resolution No. 1259, prohibiting trout fishing in the Sisga dam area.—29 December 1960)

For re-stocking purposes.

Colombia. Laws, Statutes, etc. (1960)

M
61-12916

Diario ofic., Bogotá, (30472) : 545-6

Ley no. 9 de 13 de marzo de 1961 por la cual se aprueba la convención sobre la plataforma continental, suscrita en Ginebra el 29 de abril de 1958, durante la Conferencia de las Naciones Unidas sobre la Plataforma Continental (Act No. 9, approving the convention on the continental shelf, signed at Geneva 29 April 1958, during the UN Conference on the Continental Shelf.—13 March 1961)

The conference referred to is the 1st UN Conference on the Law of the Sea.

Costa Rica. Laws, Statutes, etc. (1960)

F
61-12917

Gaceta, San José, (89) : 1313-5

Decreto No. 2726 estableciendo la ley constitutiva del servicio nacional de acueductos y alcantarillado.—13 de abril de 1961. (Legislative decree No. 2726, creating the national aqueducts and drainage service.—13 April 1961)

Wide powers in respect of water supply and pollution control.

M

Cuba. Laws, Statutes, etc. (1960)

61-12918

Gac. ofic. Cuba, (216) : 25780

Resolución por la que se fija de modo temporal un tamaño legal mínimo de diez centímetros al cangrejo moro.—3 de noviembre de 1960 (Resolution temporarily fixing at 10 centimeters the minimum size for cangrejo moro.—3 November 1960)

A variety of crab.

M

Cuba. Laws, Statutes, etc. (1960)

61-12919

Gac. ofic. Cuba, (216) : 25780

Resolución por la que se fija de modo provisional un peso mínimo legal de seis onzas (172 gramos) para el pez conocido como cubereta.—3 de noviembre de 1960 (Resolution fixing provisionally a minimum weight of six ounces for the fish known as cubereta, *Lutianus cyanopterus* Cuvier).—3 November 1960

MF

Cuba. Laws, Statutes, etc. (1960)

61-12920

Gac. ofic. Cuba, 221 : 26368-9

Resolución por la que se suspende el próximo período de veda de los peces conocidos como lisas.—5 de noviembre de 1960 (Resolution suspending the next closed season on the fish known as lisas.—5 November 1960)

Various spp. of mullet.

M

Denmark. Laws, Statutes, etc. (1961)

61-12921

Lovtidende A, 3 : 59

Bekendtgørelse om olieforurening af havet.—10. februar 1961 (Order No. 26 relative to the pollution of the sea by oil.—10 February 1961)

Refers to notification to the IMCO in London by the Canadian Government to the effect that the zone off the coast of Canada within which oil may not be discharged is extended from 50 to 100 sea miles.

MF

Denmark. Laws, Statutes, etc. (1961)

61-12922

Lovtidende A, 7 : 178

Nr. 98. Lov om ind- og udførsel af fisk.—19. april 1961 (Act No. 98 relative to the act on the import and export of fish.—19 April 1961)

Empowers the Minister of Fisheries to issue regulations governing the import and export of fish and fisheries products in accordance with existing international agreements, and to prescribe penalties for contraventions of such regulations.

REFERENCES

Denmark. Laws, Statutes, etc. (1961) M
61-12923
Lovtidende A, 8 : 192

Nr. 111. Lov om regulering af fiskeriet i det nordøstlige Atlanterhav.—
26. april 1961 (Act No. 111 regulating fisheries in the north east Atlantic.—
26 April 1961)

Provides for the issuance of future regulations relative to fisheries in the above area as defined in the London convention of 24 Jan. 1959, and in accordance with para. 1 of art. 16 of that convention relative to net mesh dimensions and minimum sizes of fish.

Denmark. Laws, Statutes, etc. (1961) MF
61-12924
Lovtidende A, 8 : 193

Nr. 112. Bekendtgørelse om anvendelse af standardiserede fiskekasser.—
27 april 1961 (Order No. 112 relative to the use of standardized fish boxes.—
27 April 1961)

France. Laws, Statutes, etc. (1961) M
61-12925
J. off. Répub. franç., (140) : 5387

Décret N° 61-606 du 10 juin 1961 rendant applicables aux navires immatriculés dans les territoires d'outre-mer de la République certains décrets sur la sauvegarde de la vie humaine en mer et l'habitabilité à bord des navires de commerce, de pêche et de plaisance d'une jauge brute égale ou supérieure à 500 tonneaux (Decree No. 61-606, rendering applicable to vessels registered in the overseas territories of the Republic certain decrees relating to the safeguard of human lives at sea and living conditions aboard commercial, fishing and pleasure craft of 500 tons or over.—10 June 1961)

Greece. Laws, Statutes, etc. (1960) F
61-12926
Ephem. Kybern., 1 (117) : 1073-4
(Decree law No. 524, relating to gri-gri fishing on the Lake of Prespa.—
23 July 1960). *He*

Ireland. Laws, Statutes, etc. (1961) MF
61-12927
Iris Oifigiúil, (31) : 461
S.I. No. 76 of 1961. Fishing nets (regulation of mesh) (amendment) order, 1961.—14 April 1961

Authorizes use of certain trawl nets. Amends the fishing nets (regulation of mesh) order, 1954 [S.I. No. 44 of 1954].

Ireland. Laws, Statutes, etc. (1961) MF
61-12928
S.I. (77) of 1961, 16 p.
Imposition of duties (No. 104) (Miscellaneous customs duties) order, 1961.—
18 April 1961

Covers fish of all kinds, incl. roes and fish paste, imported in sealed bottles, jars, kegs, pots, tins or cans.

M

61-12929

Italy. Laws, Statutes, etc. (1961)*Gazz. uff. Republ. Ital.*, (96) : 1510-6

Legge 23 febbraio 1961, n. 238. Accettazione ed esecuzione della convenzione internazionale per la prevenzione dell'inquinamento delle acque marine da idrocarburi, firmata a Londra il 12 maggio 1954 (Act No. 238 relative to the acceptance and execution of the international convention for the prevention of pollution of the sea by oil, signed at London on 12 May 1954.—23 February 1961)

M

61-12930

Italy. Laws, Statutes, etc. (1961)*Gazz. uff. Republ. Ital.*, (109) : 1734-7

Legge 31 marzo 1961, n. 301. Modifiche ed integrazioni alla legge 17 luglio 1954, n. 522, concernente provvedimenti a favore dell'industria delle costruzioni navali e dell'armamento (Act No. 301, amending and amplifying the act No. 522 of 17 July 1954 relative to provisions on behalf of the ship-building and shipping industries.—31 March 1961)

Also relates to fishing craft.

F

61-12931

Morocco. Laws, Statutes, etc. (1961)*Bull. off. Emp. chérif.*, (2540) : 924-5, 944-7

Arrêté du Ministre de l'agriculture n° 339-61 du 15 mars 1961 portant réglementation annuelle de la pêche dans les eaux continentales et fixant les périodes spéciales d'interdiction et les réserves de pêche pendant la saison 1961-1962 (Order No. 339-61 of the Minister of Agriculture, prescribing fishing regulations in continental waters, and fixing special closed seasons and fishing reserves for the 1961-1962 fishing year.—15 March 1961)

Contains restrictive measures with respect to certain spp. of fish and Crustacea.

M

61-12932

Morocco. Laws, Statutes, etc. (1961)*Bull. off. Emp. chérif.*, (2540) : 933, 954

Arrêté du Ministre du commerce, de l'industrie, des mines, de l'artisanat et de la marine marchande n° 302-61 du 9 juin 1961 réglementant l'exercice de la pêche dans la baie d'Al Hoceima (Order No. 302-61 of the Minister of Trade, Industry, Mines, Handicrafts and Merchant Marine, prescribing fishing regulations for the Al Hoceima Bay.—9 June 1961)

Prohibition of fishing from 1 Jun. to 31 Aug. each year.

F

61-12933

New Zealand. Laws, Statutes, etc. (1960)*Stat. Rules N.Z.*, 1960/145 : 3 p.

The freshwater fisheries regulations (South Canterbury, Waimate, and Waitaki) modification notice 1960.—22 September 1960

Modifies the provisions of the general regulations by reducing the bag limits, by imposing restrictions on lures and methods of fishing and by restricting the operation of the open season.

REFERENCES

F
61-12934

New Zealand. Laws, Statutes, etc. (1960)
Stat. Rules N.Z., 1960/146 : 3 p.

The freshwater fisheries regulations (Ashburton) modification notice 1960.—22 September 1960

Modifies the provisions of the general regulations by reducing the limit bag, increasing the size limit, imposing restrictions on lures and methods of fishing and excluding from the operation of the open season the waters specified.

F
61-12935

New Zealand. Laws, Statutes, etc. (1960)
Stat. Rules N.Z., 1960/147 : 2 p.

The freshwater fisheries regulations (Hawke's Bay) modification notice 1960.—22 September 1960

Modifies the provision of the general regulations by reducing the limit bag, increasing the size limit and imposing restrictions on lures and methods of fishing.

F
61-12936

New Zealand. Laws, Statutes, etc. (1960)
Stat. Rules N.Z., 1960/148 : 2 p.

The freshwater fisheries regulations (Hawera, Stratford, and Taranaki) modification notice 1960.—22 September 1960

Modifies the provisions of the general regulations by reducing the limit bag, increasing the size limit, imposing restrictions on lures and methods of fishing in waters specified and prohibiting fishing in certain waters.

F
61-12937

New Zealand. Laws, Statutes, etc. (1960)
Stat. Rules N.Z., 1960/149 : 4 p.

The freshwater fisheries regulations (Auckland) modification notice 1960.—22 September 1960

Modifies the provisions of the general regulations in the Auckland acclimatization district by reducing the limit bag, increasing the size limit and imposing restrictions on lures and methods of fishing in the waters specified.

MF
61-12938

New Zealand. Laws, Statutes, etc. (1960)
Stat. Rules N.Z., 1960/153 : 3 p.

The Rotorua trout fishing regulations 1960, amendment No. 1.—28 September 1960

Makes such changes as are necessary in the principal regulations in view of the amalgamation of the Rotorua and the Gisborne-east coast trout fishing districts.

Nicaragua. Laws, Statutes, etc. (1960)
Gaceta Managua, (32) : 281-8

MF
 61-12939

Decreto N°. 557 estableciendo la ley especial sobre explotación de la pesca.—
 20 de diciembre de 1960 (Decree No. 557 proclaiming the special act on
 fishing activities.—20 December 1960)

General text governing fishing for private consumption, sport or scientific
 purposes. Commercial fishing governed primarily by the general act on the
 exploitation of national resources.

Norway. Laws, Statutes, etc. (1961)
Norsk Lovtid., (7) : 83-8

MF
 61-12940

Resolusjon om fiskeregler for Tanaelvas fiskeområde (Resolution relative
 to fishing regulations in the Tana River fishing area.—10 February 1961)

Specifies provisions governing the limits of the area, fishing gear for salmon
 and sea trout fishing and protection of fisheries in the area, etc.

Norway. Laws, Statutes, etc. (1961)
Norsk Lovtid., (12) : 242-3

M
 61-12941

Resolusjon om endr. av §§ 20 og 21 i res. av 22. desember 1955 om
 saltvannsfiskeriene (merkebestemmelser for utestående redskaper (Resolution
 amending articles 20 and 21 of the resolution of 22 December 1955 relative to
 salt water fisheries.—23 March 1961)

Regulations governing the marking of fishing gear cast on ocean waters.

Norway. Laws, Statutes, etc. (1961)
Norsk Lovtid., (12) : 244-5

M
 61-12942

Lov om Norges fiskerigrense (Act relative to Norwegian fishing limits.—
 24 March 1961)

Specifies that the fisheries limit off Norway and Jan Mayen shall be 12 sea
 miles outside and parallel with the basic coast lines permanently established
 by the Crown. In exceptional cases, the Crown may grant exemptions from
 the provisions of art. 1, para. 1, of the act of 2 Jun. 1906 prohibiting aliens
 from fishing within Norwegian fishing limits.

Norway. Laws, Statutes, etc. (1961)
Norsk Lovtid., (12) : 245-6

M
 61-12943

Resolusjon om ikraftsetting av lov om Norges fiskerigrense (Resolution
 on the coming into force of the act relative to Norwegian fishing limits.—
 24 March 1961)

The act shall come into force on 1 Apr. 1961.

REFERENCES

Norway. Laws, Statutes, etc. (1961) M
61-12944
Norsk Lovtid., (12) : 246

Resolusjon om at bestem. om helligdagsfredningen i § 6 i lov om saltvannsfiskerierne ikke skal gjelde utenfor 4 nautiske mil utenfor grunnlinjene (Resolution prescribing that provisions relative to fisheries protection on holidays contained in article 6 of the saltwater fisheries act of 17 July 1955 shall not apply beyond 4 sea miles outside the basic coast lines.—24 March 1961)

Norway. Laws, Statutes, etc. (1961) M
61-12945
Norsk Lovtid., (12) : 246

Resolusjon om adgang til trålfiske i området mellom 4 og 6 nautiske mil utenfor grunnlinjene og om nedsettelse av distriktsvise rådgivende utvalg (Resolution permitting trawl fishing in the area between 4 and 6 sea miles outside the basic coast-lines and establishing district advisory committees.—24 March 1961)

Pakistan. Laws, Statutes, etc. (1961) MF
61-12946
Gaz. Pakist., extr., p. 825-7

Ministry of Finance (Budget and Expenditure Division) notification: customs—S.R.O. 468 (K)/61.—18 April 1961

Supersedes notification No. S.R.O. 10(R) of 30 Jun. 1960 and partially exempts the articles listed from customs-duties. Incl., *inter alia*, fish hooks. These exemptions have been granted to implement the General Agreement on Tariffs and Trade.

Panama. Laws, Statutes, etc. (1959) M
61-12947
Gac. ofic. Panama, (13.909) : 1-7

Decreto-ley N° 17 de 9 de julio de 1959, por el cual se reglamenta la pesca y se regula la exportación de productos pesqueros en la República de Panamá (Decree-law No. 17, regulating fishing and the exportation of fisheries products in the Republic of Panama.—9 July 1959)

Basic text: 1. Definitions and general provisions. 2. Fisheries administration. 3. Prohibitions. 4. Fishing crafts. 5. Fishing licences. 6. Special provisions.

Peru. Laws, Statutes, etc. (1961) F
61-12948
Peruano, (5960) : 1

Resolución suprema N° 79 por la que se prohíbe la pesca del camarón de río desde el 15 de marzo.—28 de febrero de 1961 (Supreme resolution No. 79, prohibiting the taking of craw fish as from 15 March.—28 February 1961)

1961, until 15 Jun. 1961.

Peru. Laws, Statutes, etc. (1961)M
61-12949*Peruano*, (5971) : 2

Resolución ministerial N° 201, por la que se establece que serán clausuradas las fábricas de harina de pescado que no cumplan disposiciones contra los malos olores.—14 de marzo de 1961 (Ministerial resolution No. 201, requiring the closing of fish meal plants which fail to comply with provisions for the control of disagreeable odors.—15 March 1961)

Peru. Laws, Statutes, etc. (1961)M
61-12950*Peruano*, (5974) : 1

Resolución ministerial N° 224 por la que se integra una comisión técnica para resolver problema de malos olores de fábricas de harina de pescado.—17 de marzo de 1961 (Ministerial resolution No. 224, appointing a technical commission to solve the problem of disagreeable odors in fish meal plants—17 March 1961)

One member to be appointed by the National Fishery Society and one by the Callao Provincial Council.

Portugal. Laws, Statutes, etc. (1960)M
61-12951*Diário do Gov., Lisboa*, 1 (102) : 1031

Decreto n.º 42 959: autoriza a importação, sob regime de drawback, de melvas frescas que se destinem ao fabrico de conservas.—2 de Maio de 1960 (Decree No. 54 929 authorizing the import under the drawback system of fresh frigate mackerel for canning production.—2 May 1960)

Portugal. Laws, Statutes, etc. (1960)M
61-12952*Diário do Gov., Lisboa*, 1 (129) : 1316

Portaria n.º 17 757: abre créditos na provincia ultramarina de Guiné destinados a reforçar verbas inscritas na tabela de despesa extraordinária do orçamento geral em vigor naquela provincia.—2 de Junho de 1960 (Order No. 17 757 of the Ministry for Overseas Territories opening in the overseas province of Guinea credits for financing certain items incorporated in the table of special expenditure under the general budget in the province aforesaid.—2 June 1960)

Incl. appropriation for fisheries.

Portugal. Laws, Statutes, etc. (1960)M
61-12953*Diário do Gov., Lisboa*, 1 (134) : 1335-40

Decreto-lei n.º 43 015: aprova e manda pôr em execução o regulamento do serviço de cartas, publicações e instrumentos náuticos de que devem ser munidas as embarcações mercantes, de pesca e de recreio.—8 de Junho de 1960 (Legislative decree No. 43 015 approving and ordering the enforcement of the regulation of the nautical charts, publications and instruments service with which merchant, fisheries and pleasure craft must be equipped.—8 June 1960)

Repeals all provisions contrary hereto contained in earlier orders specified in detail in the text.

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61-12954
- Portugal. Laws, Statutes, etc. (1960)**
Diário do Gov., Lisboa, 1 (157) : 1681-2
 Decreto n.º 43 056: autoriza a Direcção-Geral da Fazenda Pública a emitir, pelo Fundo de Renovação e de Apetrechamento da Indústria de Pesca, a obrigação geral representativa da 3.ª série do empréstimo de renovação et de apetrechamento da indústria da pesca (II plano de fomento), na importância de 24 000 000S.—8 de Julho de 1960 (Decree No. 43 056 authorizing the General Directorate of Public Economy to issue through the Fund for the Re-establishment and Supply of the Fisheries Industry, the general bonds representing the third series of the loan for the re-establishment and supply of the fisheries industry (II development plan) to the amount of 24 million escudos.—8 July 1960)
- M
61-12955
- Portugal. Laws, Statutes, etc. (1960)**
Diário do Gov., Lisboa, 1 (176) : 1822
 Decreto-lei n.º 43 098: suspende, a partir da campanha de 1960-61, a cobrança para o fundo de compensação por déficits de pesca, integrado no fundo de abastecimento pelo decreto-lei n.º 36 501, da taxa destinada a ressarcir os armadores dos prejuízos sofridos com a pesca deficitária.—30 de Julho de 1960 (Legislative decree No. 43 098 suspending as from the 1960-61 season the collection for the fisheries deficits compensation fund incorporated within the supply fund by legislative decree No. 36 501, of the tax intended to compensate fishing vessel owners for losses sustained as a result of fisheries deficits.—30 July 1960)
- M
61-12956
- Portugal. Laws, Statutes, etc. (1960)**
Diário do Gov., Lisboa, 1 (191) : 1871-6
 Decreto n.º 43 123: cria o Instituto de Pesca de Angola e regulamenta a sua actividade.—18 de Agosto de 1960 (Decree No. 43 123 creating the Angola Fisheries Industries Institute and regulations governing its activities.—18 August 1960)
- Prescribes functions, powers, organs, financing, etc.
- M
61-12957
- Portugal. Laws, Statutes, etc. (1960)**
Diário do Gov., Lisboa, 1 (263) : 2440
 Declaração: mantém os preços e características de bacalhau salgado seco nacional e de procedência estrangeira, fixados, respectivamente, pelas portarias n.os 13 492, 14 199, 17 469 e 17 415.—3 de Novembro de 1960 (Notice of the Ministry of Economy maintaining the prices and characteristics of Portuguese and foreign dry salt cod established in orders Nos. 13 492, 14 199, 17 469 and 17 415 respectively.—3 November 1960)
- MF
61-12958
- Portugal. Laws, Statutes, etc. (1960)**
Diário do Gov., Lisboa, 1 (262) : 2431-4
 Portaria n.º 18 054: estabelece novas bases para o comércio do peixe no continente.—11 de Novembro de 1960 (Order No. 18 054 establishing new basic conditions governing trade in fish in continental Portugal.—11 November 1960)
- Repeals orders No. 11 459 of 14 Aug. 1946, No. 11 981 of 8 Aug. 1947 and No. 13 303 of 23 Sep. 1950.

Portugal. Laws, Statutes, etc. (1960)MF
61-12959*Diário do Gov., Lisboa*, 1 (285) : 2734-5

Portaria n.º 18 113: estabelece novos preceitos para o comércio de peixe no continente.—10 de Dezembro de 1960 (Order No. 18 113 establishing new basic conditions governing trade in fish in continental Portugal.—10 December 1960)

Ad 61-12958.

Rhodesia-Nyasaland. Laws, Statutes etc. (1961)F
61-12960*Fed. Govt Gaz. Salisbury*, suppl., (27) : 903-41

Federal government notice No. 226 of 1961 concerning the national parks (designated areas) regulations, 1961, made under act 13/55

Extensive regulations incl., *inter alia*, fishing.**Republic of South Africa. Laws, Statutes, etc. (1961)**M
61-12961*Govt Gaz. S. Afr.*, (7) : 2-7

Goewermentskennisgewing No. 27: wet op seevisserye, 1940 (wet No. 10 van 1940). Wysiging van regulasies.—9 Junie 1961 (Government notice No. 27 amending regulations made under the sea fisheries act, 1940 (act No. 10 of 1940).—9 June 1961)

Replaces part 11 of the regulations published in Govt Not. No. 1353 of 1 Jul. 1955, as amended, by new provisions in respect of: (a) production of frozen rock lobster tails; (b) inspection of salted snoek intended for export.

Spain. Laws, Statutes, etc. (1961)M
61-12962*Bol. ofic. Estado, Madr.*, (66) : 4174

Orden sobre mando de barcos que ejercen la pesca de arrastre.—11 de marzo de 1961 (Order relating to the command of craft exercising trawl fishing.—11 March 1961)

Certified deep-sea fishing masters may command such craft of up to 500 tons.

Spain. Laws, Statutes, etc. (1961)M
61-12963*Bol. ofic. Estado, Madr.*, (81) : 5192

Orden por la que se autoriza la compra de la sardina a flote en la región noroeste.—22 de marzo de 1961 (Decree No. 600/1961, regulating sardines in the northwest region.—22 March 1961)

Spain. Laws, Statutes, etc. (1961)MF
61-12964*Bol. ofic. Estado, Madr.*, (88) : 5606

Decreto 600/1961, por el que se regula el transporte y comercio de la pesca producida en piscifactorías industriales y del salmón conservado en establecimiento frigoríficos.—23 de marzo de 1961 (Decree No. 600/1961, regulating transport of and trade in fish produced in fish processing plants, and salmon preserved in refrigerating establishments.—23 March 1961)

With a view to ensuring production of sound fish and to avoiding pollution of rivers by said plants and establishments.

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61-12965

Spain. Laws, Statutes, etc. (1961)
Bol. ofic. Estado, Madr., (85) : 5430-1

Orden por la que se establecen limitaciones en el ejercicio de la pesca en la región surmediterránea para el presente año.—29 de marzo de 1961 (Order establishing restrictions on fishing in the southern mediterranean region for the present year.—29 March 1961)

Restrictive measures prescribed on an experimental basis for use in future years.

MF
61-12966

Spain. Laws, Statutes, etc. (1961)
Bol. ofic. Estado, Madr., (85) : 5431

Orden por la que queda vedada en la zona denominada "El Profundo" toda clase de artes, aparejos y utensilios de pesca, excepto la "liña". 29 de marzo de 1961 (Order prohibiting, in zone known as "El Profundo", fishing with any type of net, equipment or means except "liña".—29 March 1961)

With a view to safeguarding reproduction of certain spp.

M
61-12967

Sweden. Laws, Statutes, etc. (1961)
Svensk FörfSaml., (13) : 19

Kungl. Maj:ts kungörelse Nr 13 angående ändrad lydelse av den vid kungörelsen den 2 maj 1958 (nr 191) med tillämpnings-föreskrifter till lagen den 6 april 1956 (nr 86) om åtgärder mot vattenförorening från fartyg fogade bilagan.—10 februari 1961 (Royal order No. 13 amending the annexe to order No. 191 of 2 May 1958 with provisions in application of the act No. 86 of 6 April 1956 relative to measures against the pollution of the sea by oil from ships.—10 February 1961)

The annexe in question refers to zones in which oil discharge is prohibited.

MF
61-12968

Sweden. Laws, Statutes, etc. (1961)
Svensk FörfSaml., (48) : 121-4

Lag Nr 48 om ändring i vattenlagen (den 28 juni 1918, nr 523).—10 mars 1961 (Act No. 48 amending the water law (No. 523 of 28 June 1918 as since amended).—10 March 1961)

Amendments relating, *inter alia*, to provision of fishing facilities.

MF
61-12969

Sweden. Laws, Statutes, etc. (1961)
Svensk FörfSaml., (43-44) : 103

Lag Nr 43 angående ändrad lydelse av 9§ lagen den 5 maj 1960 (nr 130) om fiskevårdsområden.—17 mars 1961 (Act No. 43 amending article 9 of act No. 130 of 5 May 1960 relative to fisheries protection areas.—17 March 1961)

Ad 61-09536. Concerns voting rights of participants.

Sweden. Laws, Statutes, etc. (1961)MF
61-12970*Svensk FörfSaml.*, (43-44) : 104

Kungl. Maj:ts kungörelse angående ändrad lydelse av § 13 kungörelsen den 30 september 1960 (nr 547) med tillämpningsföreskrifter till lagen om fiskevårdssområden.—17 Mars 1961 (Royal order No. 44 amending article 13 of royal order No. 547 of 30 September 1960 specifying provisions relative to the application of the act on fisheries protection areas.—17 March 1961)

Ad 61-09545. Provides for separate keeping and filing of records and documents by provincial authorities for each protection area.

U.K. Laws, Statutes, etc. (1960)MF
61-12971*Statut. Instrum. U.K.*, (2153) : 1 p., (S. 109)

The district of the River Cree (annual close time) order, 1960, made under the salmon fisheries (Scotland) act, 1868.—21 November 1960

Alters the annual close time for salmon fishing in the district of the River Cree.

Venezuela. Laws, Statutes, etc. (1961)MF
61-12972*Gac. ofic. Venezuela*, (26.569) : 197.126-7

Resolución número 1.565 por la cual se fijan precios máximos de venta al detal para los artículos de primera necesidad que en ella se especifican.—3 de junio de 1961 (Resolution No. 1565, fixing maximum retail sales prices for the basic commodities mentioned therein.—3 June 1961)

Also covers fish.

Marti, Iu. Iu. (Ed.) (1960)*M
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Moskva, 468 p.

Sovetskie rybokhoziaistvennye issledovaniia v moriakh Evropeiskogo Severa (Soviet fisheries investigations in north European seas). En

Landyshevskii, V. P. (1960)*F
61-12974

Moskva, Gos. uchebno-pedagog. Izd-vo, 141 p.

Shkola i rybovodstvo; iz opyta raboty uchitelia (School and fisheries; from the experience of a teacher's work)

Beever, C. & K. Ruud (1960)*MF
61-12975*FAO Fish. Stud. (Es)*, (9) : 125 p.

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 Distribution of Foraminifera in the barrier reef and lagoon of British
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BA 36A (17) 54991.

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Biol. Bull., Woods Hole, 120 (2) : 177-82

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Biol. Bull., Woods Hole, 120 (2) : 183-91

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Biol. Bull., Woods Hole, 120 (2) : 192-205

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Describes effects of *Uca pugilator* pigment activating substances extracted from *Balanus eburneus*, *Chelonibia patula* and *Lepas* sp. *Palaemonetes* chromatophoric principles and distal retinal-pigments-activators of the extracts of this barnacle are tested. Relationship of these findings to present knowledge of crustacean hormones is discussed.

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Trans. Amer. Fish. Soc., 90 (2) : 143-52

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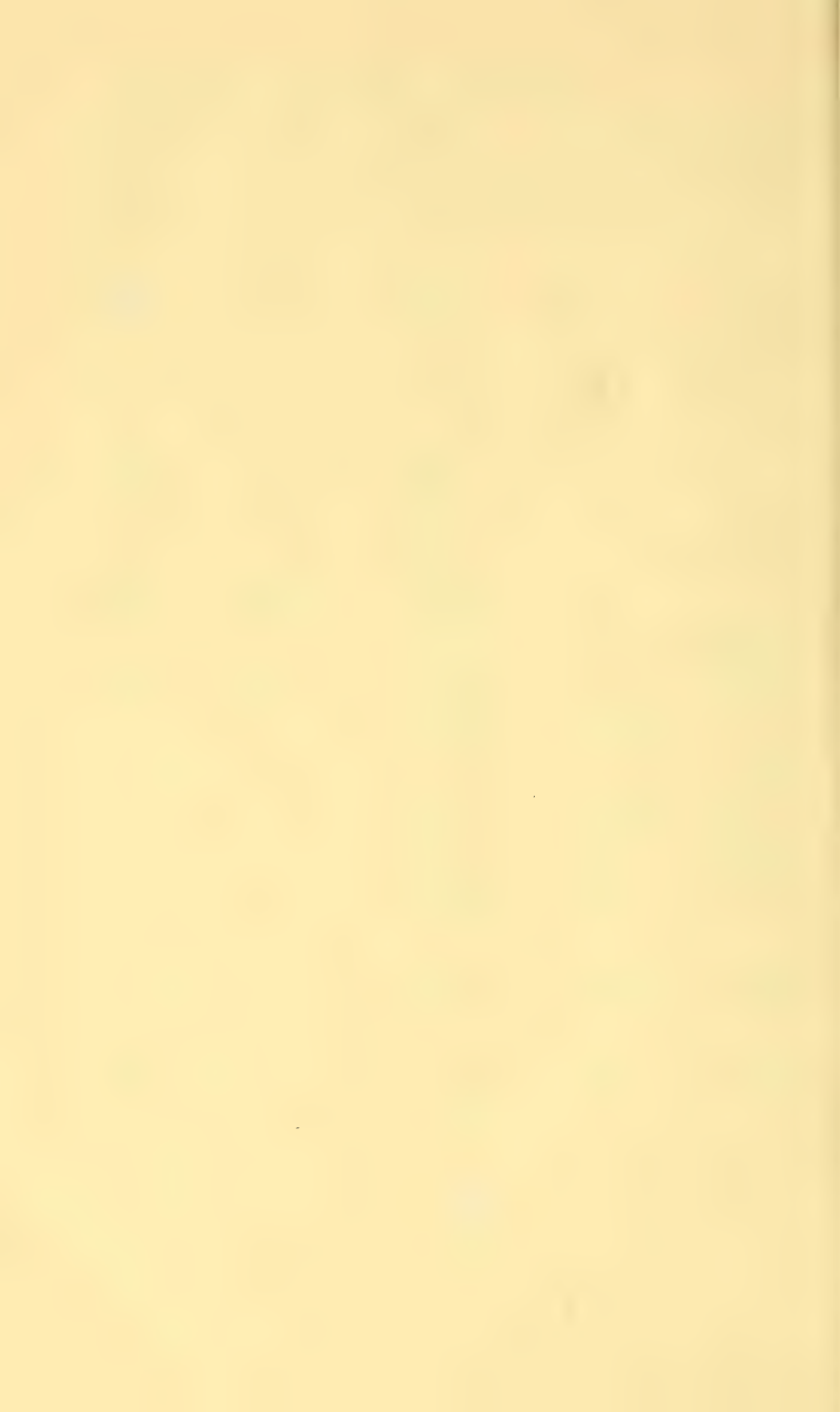
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 06888 06891 06892 06896
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 09024 09038 09042 to
 09047 09095 09131 09170
 to 09182 09187 09188
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 09322 09353 09355 09356

5. FISHING (see also 6.8)

5.1 *Statistical returns* 06924 to
 06927 07008 07253 07273
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 08275 08408 to 08412
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	11728	11812	11970	11972		10576	10578	10579	10601
	12173	12834		415me		10604	10621	10637	10740
	424me					10770	10827	11079	11105
5.2 <i>Vessels</i>	07271	07285	07329	07353		11114	11133	11138	11170
	08642	08730	08734	to		11231	11233	11235	11236
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	09386	10201	10709	10856		11317	11319	11360	11361
	10859	to	10868	11081		11366	11432	11520	11591
	11296	11350	11418	11420		11678	11897	11901	11906
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	11429	11430	11436	12174		12207	12292	12294	12463
	13294	13296	13710			12509	12528	12532	12536
	384me		461me			12539	12542	to	12545
5.3 <i>Gear</i>	06877	07006	07025	07045		12547	12548	12551	12626
	07307	07334	07351	07352		12633	12988	13024	13239
	07354	07392	07402	07403		13263	13269	13270	13271
	07498	07504	07549	07716		13283	13355	13438	13445
	07743	07746	07761	07789		13488	13538	13541	
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	08019	08020	08174	08489	5.5 <i>Fish technology</i>	07068	07179	07256	
	08624	08625	08644	08729		07257	07261	07311	07404
	08742	08829	08957	09034		07405	07554	07628	07680
	09087	09243	09244	09272		07788	07793	08243	08490
	09291	09343	09402	09421		to	08496	08731	08732
	09425	09568	09571	09602		08738	08746	to	08779
	09612	09698	09755	09756		08781	08782	08784	08786
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	09935	10145	10163	10226		09252	09273	09275	09280
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	10447	10456	10457	10636		09312	09561	09573	09574
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	10879	10939	10995	11067		to	09587	09593	09594
	11109	11177	11178	11313		09595	09598	10232	10439
	11333	11335	11341	11345		10440	10443	10445	10448
	11348	11349	11382	11385		10449	10450	10454	10455
	11433	11434	11435	11526		10459	10460	10463	10466
	11535	11583	11679	11846		10470	to	10475	10572
	11852	11853	11861	12633		10588	10600	10618	10776
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	459me					to	10912	10934	to
5.4 <i>Grounds and fishing surveys</i>	06876					10938	10958	11006	to
	06877	06945	07238	07243		11010	11020	to	11023
	07325	07335	07394	07396		11028	11029	11030	11032
	07411	07442	07447	07472		11033	11040	11041	11042
	07526	07708	07733	07745		11128	11241	11362	11417
	07818	07836	07894	07903		11423	11438	to	11491
	07911	07944	07984	08004		11493	11495	11743	11849
	08270	08304	08311	08332		11876	11939	to	11950
	08366	08367	08373	08437		12196	12197	12198	12201
	08534	to	08537	08602		12203	12576	12582	12698
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13282 13407 13482 13516
13526 13533 13694
425me

5.6 *Economics of fishing* 07237 07309
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08956 09062 09422 09777
09906 09910 10895 10902
11419 11895 11896 12261
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12540 12541 12549 12550
12976 13238 13275 13280
13434 13438 13446
392me 399me 464me

6. AQUATIC STOCKS

6.0 *General biology* 06878 06917 06923
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07282 07302 07378 07379
07380 07382 07397 07398
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07703 07712 07740 07762
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07882 07933 08003 08005
08007 08010 08012 08030
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08795 08814 08941 09102
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09951 10043 10086 10160
10255 10272 10295 10296
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10608 10610 10639 10734
10970 10973 10974 10999
11126 11195 11280 11291
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12645 12700 12701 12712
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13341 13346 13395 13472
13473 13494 13517 13524

13529 13535 13543 13570
13589 13595 13641 13642
13673 13686 396me
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6.1 *Systematics* 06917 06918 06919
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07000 07011 07012 07033
07052 07128 07129 07137
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13365	13366	13367	13371	13016	13017	13094	13234
13386	13387	13390	13393	13264	13327	13328	13342
13398	13402	13411	13415	13343	13345	13356	to
13424	13437	13605	13608	13361	13375	to	13382
13643	13656	13681	13683	13385	13493	13549	13623
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09009	09245	09277	09309
09345	09387	09392	09620
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6.3 *Physiology and behaviour*

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07067	07107	07109	07135
07149	07157	07168	07169
07184	07187	07190	07191
07217	07218	07222	07224
07232	07244	07259	07279
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07340	07341	07345	07347
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07399	07454	07455	07465
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07493	07503	07505	07509
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07649	07651	07652	07653
07659	07660	07662	07665
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07859	07866	07874	07898	10273	10275	10276	10284
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07997	08014	08020	08040	10310	10319	10320	10323
08043	08072	08078	08080	10324	10327	10328	10336
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08198	08199	08206	08207	10521	10522	10523	10525
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08470	08479	08500	08510	10852	10922	10924	to
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08572	08583	08587	08603	10959	10964	10965	10979
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09351	09352	09369	09372	11529	11538	11554	11597
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 07293 07324 07342 07344
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 08478 08482 08562 08601
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 09256 09302 09403 09412
 09613 09621 09679 09681
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 12255 12419 12421 12431
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 13682 393me

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 07326 07332 07339 07381
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 07406 07425 07453 07459
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 08009 08018 08071 08073
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 08916 08917 09033 09057
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6.6 *Selection by fishing gear* 07267 09755
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6.7 *Marking* 07440 07866 07943 07946
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 09662 10158 10518 10706
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6.8 *Fisheries for particular species or groups* 06880 07025 07069 07147
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 07758 07852 07879 07882
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 12603 12623 12677 12797
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